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### **DRAFT**

### UNIT-SPECIFIC TECHNICAL MEMORANDUM: X-314 SEPTIC SYSTEM PRATT & WHITNEY, EAST HARTFORD, CT\_\_\_\_\_

AREA: North Klondike

SUB-AREA: X-312/X-314

**ENVIRONMENTAL UNIT:** X-314 Septic System

RCRA RECORDS CENTER

FACILITY

I.D. NO. CTD990672081

FILE LOC. R-S

OTHER DMS #2665

Location: In the North Klondike Area, this unit is located on the east side of Perimeter Road and north of the Tie-Down Area (Drawing 1).

**Description:** The former septic system consisted of a steel septic tank, approximately 1,000 gallons in size, and a single line leaching field. The septic system serviced the former locker room building for the X-314 Test Stand. Presently, only the foundation of the former building remains. The septic system was located northeast of the former building. The location is shown on Drawing 1. Based on facility maps, this building was used for lockers, a bathroom, and storage. The septic tank had been abandoned in place and was filled with a mixture of crushed stone and soil over a thin layer of sludge in the bottom. As of April 1997, the septic tank has been removed.

**Dates of Operation:** Approximately 1957 to early 1990's. The X-312 and X-314 Test Stands were built in 1957 and remained in place until they were demolished in the early 1990's.

**Processes:** Domestic sewage from the former X-314 building, also known as the "Locker Room Building" to the septic system.

Aerial Photographs: Large-scale photographs for 1965, 1970, and 1975 were obtained from Keystone Aerial Surveys, Inc. Three smaller aerial photographs were obtained from the Pratt and Whitney (P&W) Photographic Services Department. All of these aerial photographs reveal that the X-314 Test Stand was an existing structure in the North Klondike as early as 1965. It is assumed that the dates of operation of the septic system would have paralleled the existence of the building.

Specific Contaminants of Concern: The specific contaminants are unknown. In order to be as comprehensive as possible in the investigation that was conducted, the following constituent groups were analyzed for: volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, nickel, and zinc), total petroleum hydrocarbons (TPH), and polychlorinated biphenyls (PCBs).

**Potential Release Mechanism:** Impacts to soils and groundwater associated with potential leaks from the septic tank, and seepage from the leaching field.

#### **INVESTIGATION AND REMEDIATION ACTIVITIES:**

Due to the potential for a release associated with the septic system, several subsurface investigations were performed to determine the degree and extent of potential soil contamination in the vicinity of the septic system. These investigations were performed in July 1993, August



1995, August 1996, and November 1996. Prior to 1993, no investigation of this unit had reportedly been performed. The septic tank was removed in April 1997. The investigations and the removal are discussed below in chronological order.

#### July 1993 Investigation (Metcalf & Eddy, Inc.):

**Description:** In June 1993, a single soil sample, NK-SS-14, was collected in the vicinity of the septic tank by Metcalf & Eddy, Inc. (M&E) (M&E, 1993). The sampling location was reported as being chosen based on being close to a suspected underground storage tank grave and near pipe fittings that had a likelihood of leaking. The sample location is shown on Drawing 1. This sample was analyzed for VOCs, SVOCs, metals (plus beryllium), and PCBs. A summary of the samples collected and analyses performed is included in Table 1.

Investigation Results: Concentrations of constituents detected in soil samples collected for this unit are presented in Table 2. A complete summary of soil analytical results with detection limits is presented in Table 3. Detected concentrations at each soil sampling location are shown on Drawing 1. VOCs, SVOCs, and PCBs were not detected in this soil sample. Metals were detected in the soil sample submitted for analysis. These metals include arsenic, barium, beryllium, chromium, lead, nickel, and zinc.

Data Evaluation and Conclusions: The data were compared against the default numeric criteria included in the Connecticut Remediation Standard Regulation (RSR) and the site-wide background soil concentrations for various metals (Fuss & O'Neill, 1994). For a more detailed discussion of background concentrations of metals in soil refer to *Technical Memorandum (TM)* 4, Background Soil Sampling and Analysis. Criteria are established in the RSR based on exposure pathways for various environmental media, including soil and groundwater. The evaluation of the soils data is based on a comparison to the default numeric residential direct exposure criteria (RDEC), the industrial/commercial direct exposure criteria (IDEC), and the GB pollutant mobility criteria (GBPMC) included in the RSR.

Based on the analytical results of the soil sample, there is no evidence that hazardous constituents may have been released in the area of the sample. The concentrations of the metals detected in this sample are typical of site-wide background concentrations and are not indicative of a release from this unit. For metals detected in the soil sample, no exceedances of the RDEC or the IDEC were noted.

Although no exceedances were identified for the above soil sample, additional soils and groundwater data were necessary to determine if hazardous constituents may have been released to the septic system. Since the one soil sample was not collected in the vicinity of the leaching field or from within the septic tank, additional investigation in the vicinity of the unit was warranted.

#### August 1995 Investigation (Loureiro Engineering Associates, P.C.):

**Description:** On August 2, 1995, the septic tank was located with an excavator by Loureiro Engineering Associates, P.C. (LEA). The location of the septic tank is shown on Drawing 1. LEA used an excavator to expose the top of the septic tank. A sludge sample, NK-SL-04, was



collected from inside of the septic tank. This sludge sample was submitted to Averill Environmental Laboratory, Inc. (AEL) and analyzed for the presence of VOCs, metals, and PCBs.

In addition, one soil boring, NK-SB-04 was advanced into the approximate location of the leaching field on August 8,1995. The sampling location is shown on Drawing 1. Soil samples were collected from the boring in continuous 2-foot intervals to 10 feet. The depth of 10 feet was selected to ensure that the boring was advanced into the water table.

A total of five soil samples from the soil boring were submitted to the LEA Analytical Laboratory and screened for the presence of target VOCs, including benzene (BZ), ethylbenzene (EBZ), tetrachloroethylene (PCE), toluene (TL), 1,1,1-trichloroethane (TCA), trichloroethylene (TCE), and xylenes (XYL). Based on visual, olfactory, or instrument evidence, and with consideration of the potential release mechanism, one sample from the soil boring was submitted to AEL and analyzed for the presence of VOCs, metals, and PCBs. A summary of the samples collected and analyses performed is included in Table 1.

**Investigation Results:** Based on the boring log, groundwater was encountered at approximately 8 feet and varved clay was not encountered at the investigated depths. No visual or olfactory evidence of contamination was noted on the boring logs.

Concentrations of constituents detected in the soil and septic tank sludge sample are presented in Table 2 and Table 6, respectively. A complete summary of soil and sludge sample analytical results with detection limits is presented in Table 3 and Table 7, respectively. Detected concentrations are shown on Drawing 1. Two VOCs, chloroethane and XYL, were detected in the sludge sample, while no VOCs were detected in the soil sample. Chloroethane and XYL were detected at concentrations of 270 micrograms per kilogram ( $\mu g/kg$ ) and 23  $\mu g/kg$ , respectively.

The only metal that was detected in the sludge sample was barium, while the metals detected in the soil sample included arsenic, barium, and chromium. PCBs were not detected in either the sludge or the soil sample.

**Data Evaluation and Conclusions**: The data were compared against the default numeric criteria included in the RSR and the site-wide background soil concentrations for various metals. The concentrations of the metals detected in the soil samples are typical of site-wide background concentrations and are not indicative of a release from this unit. For the metals detected in soil, no exceedances of the RDEC or the IDEC were noted.

Based on the presence of VOCs in the septic system sludge, there is evidence that hazardous constituents may have been released to the septic system. Nevertheless, the sample collected from the septic tank sludge should not be compared to the RSR, since there are no criteria for sludge samples. However, the constituents detected in the sludge sample are below the RDEC and the IDEC for soil. The degree and extent of potential contamination in the vicinity of this unit has not been adequately characterized and further investigations are necessary.



#### August 1996 Investigation (LEA):

**Description:** On August 12 and 13, 1996, four soil borings, NK-SB-43 through NK-SB-46, were advanced in the assumed area of the leaching field. The sampling locations are shown on Drawing 1. Soil samples were collected from the borings in continuous 2-foot intervals to 14 feet, with a 1-foot interval from 14 to 15 feet. The depth of 15 feet was selected to ensure that sufficient data was collected for comparisons against the direct exposure criteria in the RSR.

A total of thirty-three soil samples were submitted to the LEA Analytical Laboratory and screened for the presence of target VOCs. Based on visual, olfactory, or instrument evidence, and with consideration of the potential release mechanism, two samples from each soil boring were submitted to AEL for analysis. The samples were analyzed for the presence of VOCs, SVOCs, metals, and TPH.

In addition, a groundwater sample was also collected from boring NK-SB-46, using Geoprobe<sup>®</sup> screenpoint groundwater sampling techniques. The groundwater sample was collected at a depth of 9.5 to 10.5 feet below the ground surface. The groundwater sample was submitted to the LEA Analytical Laboratory for analysis for the presence of VOCs, and AEL for VOCs, metals, and TPH. A summary of the samples collected and analyses performed is included in Table 1.

**Investigation Results:** Based on the boring logs, groundwater was encountered at approximately 10 feet in boring NK-SB-46 and at 9.5 feet in the remaining three borings. Varved clay was encountered at 15 feet in all four borings. No visual or olfactory evidence of contamination was noted on the boring logs. Concentrations of constituents detected in soil samples collected for this unit are presented in Table 2. A complete summary of soil analytical results with detection limits is presented in Table 3. Detected concentrations are shown on Drawing 1. VOCs and SVOCs were not detected in any of the soil samples submitted for analysis.

TPH was detected in one boring, NK-SB-44 at a depth of 0 to 2 feet, at a concentration of 328 milligrams per kilogram (mg/kg). One or more metals were detected in each of the eight soil samples submitted for analysis. These metals include arsenic, barium, chromium, copper, and zinc.

Concentrations of constituents detected in the groundwater sample collected for this unit are presented in Table 4. A complete summary of groundwater analytical results with detection limits is presented in Table 5. Detected concentrations in groundwater are shown on Drawing 2. VOCs and TPH were not detected in the groundwater samples. Several metals were detected in the groundwater sample, including barium, nickel, and zinc.

**Data Evaluation and Conclusions:** The data were compared against the default numeric criteria included in the RSR and the site-wide background soil concentrations for various metals. The concentrations of the metals detected in the soil samples are typical of site-wide background concentrations and are not indicative of a release from this unit. For the metals detected in soil, no exceedances of the RDEC or the IDEC were noted.

The evaluation of the groundwater data was based on a comparison to the default numeric residential volatilization criteria (RVC), the industrial/commercial volatilization criteria (IVC),



and the surface water protection criteria (SWPC) included in the RSR. For the metals detected in groundwater, no exceedances of the surface water protection criterion (SWPC) were noted.

For the TPH detected in soil, no exceedances of the RDEC, IDEC, or the GBPMC were noted. Based on the presence of TPH in boring NK-SB-44 at a depth of 0 to 2 feet, there is evidence that a release of petroleum may have occurred from a source other than the septic system. Given the location of the boring and the depth where TPH was detected, the septic system does not appear to be the source of the TPH. The source of the TPH is not known. The degree and extent of the release has not been adequately characterized in the vicinity of this boring.

#### November 1996 Investigation (LEA):

**Description:** On November 13, 1996, four soil borings, NK-SB-219 through NK-SB-222, were advanced to a depth of 6 feet in vicinity of boring NK-SB-44 where TPH had been detected at 0 to 2 feet. The sampling locations are shown on Drawing 1. Soil samples were collected from each of the borings in continuous 2-foot intervals to 6 feet. The depth of 6 feet was selected to ensure that sufficient data were collected for adequate vertical characterization of the potential TPH release.

A total of thirteen soil samples were submitted to the LEA Analytical Laboratory and screened for the presence of target VOCs. The soil samples from the 0 to 2 foot and the 2 to 4 foot intervals in each boring were submitted to AEL and analyzed for TPH. A summary of the samples collected and analyses performed is included in Table 1.

**Investigation Results:** No visual or olfactory evidence of contamination was noted on the boring logs. Neither groundwater or varved clay were encountered in the borings.

Concentrations of constituents detected in soil samples collected for this unit are presented in Table 2. A complete summary of soil analytical results with detection limits is presented in Table 3. Detected concentrations are shown on Drawing 1. VOCs were not detected in any of the soil samples by the LEA Analytical Laboratory. TPH was detected in one boring, NK-SB-221 at a depth of 0 to 2 feet, at a concentration of 71.5 mg/kg.

**Data Evaluation and Conclusions:** The data were compared against the default numeric criteria included in the RSR and the site-wide background soil concentrations for various metals. For the TPH detected in soil, no exceedances of the RDEC, IDEC, or the GBPMC were noted. Based on the presence of TPH in boring NK-SB-221 at a depth of 0 to 2 feet and the previous TPH detection at NK-SB-44, there is evidence that a release of petroleum may have occurred from a source other than the septic system.

Given the location of the boring and the depth where TPH was detected, the septic system does not appear to be the source for the TPH. The source for the TPH is not known. The degree and extent of the TPH release has been adequately characterized and no additional investigation or remediation is warranted for the TPH detections. The septic tank was scheduled for removal as part of the Septic System Removal Project to comply with the local Health Department regulations.



#### April 1997 Remediation (Environmental Remediation, Inc.):

Description: As part of the Septic System Removal Project conducted in the Airport/Klondike Area, the septic tank for the X-314 Septic System was removed on April 11, 1997 by Environmental Remediation, Inc. (ERI). The soil excavated during the tank removal was disposed of off the site as a non-hazardous waste. The excavation for the septic tank, identified as test pit NK-TP-14, was approximately 13 feet by 13 feet by 7 feet deep. The location of the test pit is shown on Drawing 1. A total of five soil samples, including a duplicate soil sample, were collected from each of the four excavation sidewalls and the testpit bottom on April 11, 1997. These soil samples were submitted to Environmental Science Services Laboratory (ESS) for analysis. Due to data validation issues, analytical results from ESS were deemed unusable for the Airport/Klondike Project. Subsequent to these concerns, ESS analytical results have not be considered within this Unit-Specific Technical Memorandum.

The four confirmational sidewall samples and a bottom sample were recollected on June 9, 1997. These soil samples were submitted to Quanterra Inc. (QNT) for analysis of VOCs, metals, and TPH. A summary of the samples collected and analyses performed are included in Table 1. The sampling locations are shown on Drawing 1.

**Investigation Results:** No visual or olfactory evidence of contamination was noted in the field paperwork. Concentrations of constituents detected in soil samples collected for this unit are presented in Table 2. A complete summary of soil analytical results with detection limits is presented in Table 3. Detected concentrations at each sampling location are shown on Drawing 1.

VOCs and TPH were not detected in the samples submitted to QNT for analysis. One or more of the metals analyzed were detected in each of the samples submitted for analysis. These metals include barium, chromium, lead, nickel, and zinc.

Data Evaluation and Conclusions: The data were compared against the default numeric criteria included in the RSR and the site-wide background soil concentrations for various metals. The concentrations of the metals detected in the soil samples are typical of background concentrations and are not indicative of a release from this unit. For the metals detected in soil, no exceedances of the RDEC or the IDEC were noted.

VOCs and TPH were not detected in the confirmational soil samples collected and analyzed for this unit. Based on the results of the laboratory analyses of confirmational soil samples collected and analyzed for this unit, there is no evidence that a release occurred from the septic tank. As a result, the area has been adequately characterized and no further action is warranted for this unit.

#### **REFERENCES:**

Fuss & O'Neill, Inc., June 1995, Soil Sampling Background Areas – North Klondike, prepared for Pratt & Whitney.

Keystone Aerial Surveys, Inc. 1965, Aerial Photo of Rentschler Airport and Surrounding Areas, East Hartford, CT.



Keystone Aerial Surveys, Inc. 1970, Aerial Photo of Rentschler Airport and Surrounding Areas, East Hartford, CT.

Keystone Aerial Surveys, Inc. 1975, Aerial Photo of Rentschler Airport and Surrounding Areas, East Hartford, CT.

Metcalf & Eddy, Inc. July 1993, Draft Report - Klondike Area Site Investigation, UTC / Pratt & Whitney Facility, East Hartford, CT, prepared for Pratt & Whitney.

P&W Photographic Services Department, 1977, Aerial Photograph, Negative Number 77-445-0054-AC, Pratt & Whitney, East Hartford, CT.

P&W Photographic Services Department, 1983, *Aerial Photograph, Negative Number 83C1793-042*, Pratt & Whitney, East Hartford, CT.

P&W Photographic Services Department, 1983, Aerial Photograph, Negative Number 83C1793-041, Pratt & Whitney, East Hartford, CT.



### Table 1 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION P&W East Hartford: X-314 Septic System Area

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	Sam	ple Information				Analysis Information										
Location ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneous		
NK-SB-04	1006262	8/ 8/95	0	2	SB	x							<del> </del>			
NK-SB-04	1006263	8/ 8/95	2	4	SB	x	x				х	X		-		
NK-SB-04	1006264	8/ 8/95	4	6	SB	x										
NK-SB-04	1006265	8/ 8/95	6	8	SB	х										
NK-SB-04	1006482	8/ 8/95	8	10	SB	х										
NK-SB-219	1021748	11/13/96	0	2	SB	x				·				x		
NK-SB-219	1021749	11/13/96	2	4	SB	х								х		
NK-SB-219	1021750	11/13/96	4	6	SB	х										
NK-SB-220	1021751	11/13/96	0	2	SB	x								х		
NK-SB-220	1021752	11/13/96	2	4	SB	х								x		
NK-SB-220	1021753	11/13/96	4	6	SB	х										
NK-SB-221	1021754	11/13/96	0	2	SB	х								X		
NK-SB-221	1021755	11/13/96	2	4	SB	x								х		
NK-SB-221	1021756	11/13/96	2	4	SB	х								x		
NK-SB-221	1021757	11/13/96	4	6	SB	х										
NK-SB-222	1021758	11/13/96	0	2	SB	x								x		
NK-SB-222	1021759	11/13/96	2	4	SB	x								х		
NK-SB-222	1021760	11/13/96	4	6	SB	x										
NK-SB-43	1017115	8/12/96	0	2	SB	x	х	x				X		х		
NK-SB-43	1017116	8/12/96	2	4	SB	x										
NK-SB-43	1017117	8/12/96	4	6	SB	x										
NK-SB-43	1017118	8/12/96	4	6	ŞB	x										
NK-SB-43	1017119	8/12/96	6	8	SB	х	x	x				X		х		
NK-SB-43	1017120	8/12/96	8	10	SB	x								· · · · · · · · · · · · · · · · · · ·		
NK-SB-43	1017121	8/12/96	10	12	SB	х										
NK-SB-43	1017122	8/12/96	12	14	SB	x								<del></del>		
NK-SB-43	1017123	8/12/96	14	15	SB	x										
NK-SB-44	1017124	8/12/96	0	2	SB	х	x	x				X		х		
NK-SB-44	1017125	8/12/96	2	4	SB	x							<u> </u>			
NK-SB-44	1017126	8/12/96	4	6	SB	×										
NK-SB-44	1017127	8/12/96	6	8	SB	x	x	x				X	<u> </u>	x		
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Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit



<sup>2.</sup> Printed on 09/24/98

### Table 1 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION P&W East Hartford: X-314 Septic System Area

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	Sampl	e Information	1		Analysis Information									
Location ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneous
NK-SB-44	1017128	8/12/96	8	10	SB	х								
NK-SB-44	1017129	8/12/96	10	12	SB	x								
NK-SB-44	1017130	8/12/96	12	14	SB	х								
NK-SB-44	1017131	8/12/96	14	15	SB	х								-
NK-SB-45	1017132	8/12/96	0	2	SB	x	х	х				Х		x
NK-SB-45	1017133	8/12/96	2	4	SB	х								
NK-SB-45	1017134	8/12/96	4	6	SB	х								
NK-SB-45	1017135	8/12/96	6	8	SB	х	x	х				X		x
NK-SB-45	1017136	8/12/96		10	SB	х								
NK-SB-45	1017137	8/12/96		12	SB	х								
NK-SB-45	1017138	8/12/96	1	14	SB	х								
NK-SB-45	1017139	8/12/96	14	15	SB	х								
NK-SB-46	1017141	8/13/96	0	2	SB	х	х	х				X		x
NK-SB-46	1017142	8/13/96	2	4	SB	х								
NK-SB-46	1017143	8/13/96	4	6	SB	х								
NK-SB-46	1017144	8/13/96	6	8	SB	х	х	х				X		x
NK-SB-46	1017145	8/13/96	8	10	SB	х								
NK-SB-46	1017146	8/13/96	t	12	SB	х								
NK-SB-46	1017205	8/13/96	9.5	10.5	GW	х	x					X		х
NK-SB-46	1017147	8/13/96	12	14	SB	х								
NK-SB-46	1017148	8/13/96	14	15	SB	х								
NK-SL-04	1006167	8/ 2/95			SRL		Х				х	х		
NK-SS-14	01015061793	6/17/93			SS		х	х			х	X		-
NK-TP-14B	1635143	6/ 9/97			SS		х					X		х
NK-TP-14E	1635141	6/ 9/97			SS		х					X		x
NK-TP-14N	1635139	6/ 9/97			SS		x					X		x
NK-TP-14S	1635140	6/ 9/97			SS		x					X		x
NK-TP-14W	1635142	6/ 9/97			SS		x					х		x

Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit

2. Printed on 09/24/98

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### Table 2 DRAFT SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS) - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-04	NK-SB-221	NK-SB-43	NK-SB-43	NK-SB-44	NK-SB-44	NK-SB-45
	Sample ID	1006263	1021754	1017115	1017119	1017124	1017127	1017132
	Sample Date	08/08/1995	11/13/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	10:57	10:45	13:20	13:52	14:30	14:58	15:40
	Sample Depth	2' - 4'	0' - 2'	0' - 2'	6' - 8'	0' - 2'	6' - 8'	0' - 2'
	Laboratory	AEL	AEL	AEL	AEL	AEL	AEL	AEL
	Lab. Number	AEL95008789	AEL96013186	AEL96009144	AEL96009145	AEL96009146	AEL96009228	AEL96009229
Constituent	Units							
Date Metals Analysed	-	08/16/1995		08/20/1996	08/20/1996	08/20/1996	08/22/1996	08/22/1996
Date Physical Analysed	-		11/27/1996			08/30/1996		
Arsenic	mg/kg	1.1						5.87
Barium	mg/kg	21.1		19.1	13.4	17.6	12.9	62.4
Beryllium	mg/kg							
Chromium	mg/kg	6.36		6.28	7.62	6.95	8.03	12.4
Chromium (Total)	mg/kg							
Copper	mg/kg			6.18	5.74	5.6		
Load	mg/kg							
Mercury	mg/kg							
Nickel	mg/kg							
Zinc	mg/kg			20.6	19.1	21.9	17	33.8
Total Petroleum Hydrocarbons	mg/kg		71.5			328		
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Notes: 1. Only Detects Shown

2. Printed on 09/24/98



### Table 2 DRAFT SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS) - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-45	NK-SB-46	NK-SB-46	NK-SS-14	NK-TP-14B	NK-TP-14E	NK-TP-14N
	Sample ID	1017135	1017141	1017144	01015061793	1635143	1635141	1635139
	Sample Date	08/12/1996	08/13/1996	08/13/1996	06/17/1993	06/09/1997	06/09/1997	06/09/1997
	Sample Time	16:07	10:40	11:10		09:30	09:25	09:20
	Sample Depth	6' - 8'	0' - 2'	6' - 8'				
	Laboratory	AEL	AEL	AEL	ENS	QUAN	QUAN	QUAN
	Lab. Number	AEL96009230	AEL96009231	AEL96009232	0291110001SA	A7F100149034	A7F100149032	A7F100149030
Constituent	Units						_	
Date Metals Analysed		08/22/1996	08/22/1996	08/22/1996	06/28/1993	06/26/1997	06/26/1997	06/26/1997
Date Physical Analysed	•							
Arsenic	mg/kg							
Barium	mg/kg	14	20.1	13.5	27.8			23.9
Beryllium	mg/kg				0.23			
Chromium	mg/kg	6.11		6.3		7.9	6.9	9.8
Chromium (Total)	mg/kg				5.5			
Copper	mg/kg			<del>                                     </del>				
Load	mg/kg				3.6	6.1	3.5	3.1
Mercury	mg/kg		0.233					
Nickel	mg/kg				4.7	6.7	7.2	9.0
Zinc	mg/kg	16.3	20.6	16.5	13.8	1	26.0	22.2
Total Petroleum Hydrocarbons	mg/kg							
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		1	1	<del> </del>	1		1	<del>                                     </del>
<del></del>	<del></del>	<del> </del>	1		<b>†</b>	<del>                                     </del>	<del>                                     </del>	<del> </del>
<del> </del>						<del></del>	<del></del>	<del></del>

Notes: 1. Only Detects Shown

2. Printed on 09/24/98

LEA

### Table 2 DRAFT SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS) - SOIL P&W East Hartford: X-314 Septic System Area

Page 3 of 3

L				 		Page 3 01 3
	Location ID	NK-TP-14S	NK-TP-14W			
	Sample ID	1635140	1635142			
	Sample Date	06/09/1997	06/09/1997			
•	Sample Time	09:22	09:27			
	Sample Depth					
	Laboratory	QUAN	QUAN			
	Lab. Number	A7F100149031	A7F100149033			
Constituent	Units					
Date Metals Analysed	•	06/26/1997	06/26/1997			
Date Physical Analysed	•					
Arsenic	mg/kg					
Barium	mg/kg					
Beryllium	mg/kg					
Chromium	mg/kg	6.0	6.3			
Chromium (Total)	mg/kg					
Copper	mg/kg					
Lead	mg/kg	3.3	3.3			
Mercury	mg/kg					
Nickel	mg/kg	5.2	6.6		 	
Zinc	mg/kg	16.8	18.1			
Total Petroleum Hydrocarbons	mg/kg				 	
	1		<del></del>	 	 	

Notes: 1. Only Detects Shown

2. Printed on 09/24/98



### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 1 of
	Location ID	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-219
	Sample ID	1006262	1006263	1006263	1006264	1006265	1006482	1021748
	Sample Date	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	11/13/1996
	Sample Time	11:02	10:57	10:57	11:08	11:15	11:55	09:45
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	0' - 2'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	AEL
	Lab. Number	95-00202-455	AEL95008789	95-00203-456	95-00204-457	95-00205-458	95-00206-459	AEL96013182
Constituent	Units							
Date Metals Analysed	•		08/16/1995					
Date Organics Analysed	-	08/09/1995	08/18/1995	08/09/1995	08/09/1995	08/09/1995	08/09/1995	
Date PCBs Analysed			08/22/1995					
Date Physical Analysed	•							11/27/1996
Date Semi-volatile Organics Analysed								
Arsenic	mg/kg		1.1					
Barium	mg/kg		21.1					
Beryllium	mg/kg							
Cadmium	mg/kg		<3.23					
Chromium	mg/kg	•	6.36					
Chromium (Total)	mg/kg							
Copper	mg/kg							
Lead	mg/kg		<21.6					
Mercury	mg/kg		<0.216					
Nickel	mg/kg							
Selenium	mg/kg	T	<1.08					
Silver	mg/kg		<5.39					
Zinc	mg/kg							
PCB 1016	μg/kg		<210					
PCB 1221	μ <b>g/kg</b>		<210					
PCB 1232	μg/kg		<210					
PCB 1242	μg/kg		<210					
PCB 1248	μ <b>g/kg</b>		<210					
PCB 1254	μg/kg		<210					
PCB 1260	μg/kg		<210		1			
Dibromo-3-chloropropane, 1, 2-	μg/kg			<u> </u>				
Total Petroleum Hydrocarbons	mg/kg							<36.6
Acenaphthene	μg/kg	T	<u> </u>		<u> </u>			

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 2 of
	Location ID	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-219
	Sample ID	1006262	1006263	1006263	1006264	1006265	1006482	1021748
	Sample Date	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	11/13/1996
	Sample Time	11:02	10:57	10:57	11:08	11:15	11:55	09:45
_	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	0' - 2'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	AEL
	Lab. Number	95-00202-455	AEL95008789	95-00203-456	95-00204-457	95-00205-458	95-00206-459	AEL96013182
Constituent	Units							
Acenaphthylene	μ <b>g/k</b> g							
Anthracene	μ <b>g/k</b> g							
Benzidine	μg/kg							
Benzo[a]anthracene	μg/kg							
Benzo[a]pyrene	μg/kg							
Benzo[b]fluoranthene	μg/kg							
Benzo[ghi]perylene	μg/kg							
Benzo[k]fluoranthene	μg/kg							
Bis(2-chloroethoxy)methane	μg/kg							
Bis(2-chloroethyl)ether	μg/kg							
Bis(2-sthylhexyl)phthalate	μg/kg							
Bromophenyl Phenyl Ether, 4-	μg/kg							
Butyl Benzyl Phthalate	μg/kg							
Carbazole	μg/kg							
Chloroaniline,4-	μg/kg							
Chloronaphthalene,2-	μg/kg							
Chlorophenol,2-	μg/kg							
Chlorophenyl Phenyl Ether,4-	μg/kg							
Chrysene	μ <b>g/kg</b>							
Cresol,2-	μg/kg							
Cresol,4-	μg/kg							
Di-n-butyl Phthalate	μg/kg							
Di-n-octyl Phthalate	μg/kg							
Dibenzo[a,h]anthracene	μg/kg	1						
Dibenzofuran	μg/kg							
Dichloro-2-butylene,1,4-trans-	μg/kg							
Dichlorobenzidine,3,3'-	μg/kg			<del> </del>				<u> </u>
	<u> </u>	<del></del>	<del></del>	<del></del>		<del></del>	<del>+</del>	<u></u>



### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								rage 5 0.
	Location ID	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-219
	Sample ID	1006262	1006263	1006263	1006264	1006265	1006482	1021748
	Sample Date	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	11/13/1996
	Sample Time	11:02	10:57	10:57	11:08	11:15	11:55	09:45
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	0' - 2'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	AEL
	Lab. Number	95-00202-455	AEL95008789	95-00203-456	95-00204-457	95-00205-458	95-00206-459	AEL96013182
Constituent	Units							
Diethyl Phthalate	μ <b>g/kg</b>							
Dimethyl Phthalate	μg/kg	1						1
Dimethylphenol,2,4-	μg/kg	<u> </u>			7	<u> </u>		1
Dinitro-o-cresol, 4,6-	μg/kg	I		T				
Dinitrophenol, 2,4-	μg/kg							
Dinitrotoluene, 2, 4-	μ <b>g/k</b> g							
Dinitrotoluene,2,6-	μg/kg							
Diphenylhydrazine,1,2-	μg/kg							
Fluoranthene	μg/kg							
Fluorene	μg/kg							
Herachlorobenzene	µg/kg							
Hexachlorobutadiene	μg/kg							
Hexachlorocyclopentadiene	μg/kg							
Hexachloroethane	μ <b>g/kg</b>							
Indeno(1,2,3-cd)pyrene	μg/kg							
Isophorone	μg/kg							
Methylnaphthalene,2-	μ <b>g/kg</b>							
N-nitrosodi-n-propylamine	μg/kg							
N-nitrosodimethylamine	μg/kg							
N-nitrosodiphenylamine	µg/kg							
Napishalone	μg/kg							
Nitroaniline,2-	μg/kg		<u> </u>					
Nitroaniline,3-	µg/kg		T				1	
Nitroaniline,4-	μg/kg							
Nitrobenzene	μg/kg							
Nitrophenol,2-	μg/kg	1						
Nitrophenol,4-	μ <b>g/kg</b>	1						
Pentachlorophenol	μ <b>g/kg</b>	1	1	<del> </del>	1	<del> </del>	<del>- </del>	1

Notes: 1. Printed on 09/24/98

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### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 4 of
	Location ID	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-219
	Sample ID	1006262	1006263	1006263	1006264	1006265	1006482	1021748
	Sample Date	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	11/13/1996
	Sample Time	11:02	10:57	10:57	11:08	11:15	11:55	09:45
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	0' - 2'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	AEL
	Lab. Number	95-00202-455	AEL95008789	95-00203-456	95-00204-457	95-00205-458	95-00206-459	AEL96013182
Constituent	Units							
Phenanthrene	μ <b>g/k</b> g							
Phonol	μg/kg							
Propane),2,2'-oxybis(2-chloro-	μg/kg		<u> </u>					
Pyrone	μg/kg							
Trichlorobenzene,1,2,4-	μg/kg							
Trichlorophenol,2,4,5-	μ <b>g/kg</b>							
Trichlorophenol,2,4,6-	μg/kg							
Acetone	μ <b>g/kg</b>		<25					
Acetonitrile	μ <b>g/k</b> g							
Acrolein	μg/kg		<13					
Acrylonitrile	μg/kg		<13					
Allyl Chloride	μg/kg							
Benzene	μ <b>g/k</b> g		<5.0					
Benzene (screening)	μg/kg	<b>3</b>		3	ব্য	<3	ব	
Bromobenzene	μg/kg		<5.0					
Bromoform	μg/kg		<5.0					
Carbon Disulfide	μg/kg	1	<5.0					
Carbon Tetrachloride	μg/kg		<5.0					
Chlorobenzene	μg/kg		<5.0					
Chlorodibromomethane	μg/kg		<5.0					
Chloroethane	μg/kg		<5.0					
Chloroethyl Vinyl Ether,2-	μg/kg		<5.0					
Chloroform	μg/kg		<5.0					
Chloroprene, beta-	μ <b>g/kg</b>							
Chlorotoluene,o-	μg/kg		<5.0					
Chlorotoluene,p-	μg/kg	1	<5.0					
Dibromomethane	μg/kg		<5.0				1	1
Dichlorobenzene, 1, 2-	μg/kg	<u> </u>	<5.0	·				

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 5 of
	Location ID	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-219
	Sample ID	1006262	1006263	1006263	1006264	1006265	1006482	1021748
	Sample Date	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	11/13/1996
	Sample Time	11:02	10:57	10:57	11:08	11:15	11:55	09:45
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	0' - 2'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	AEL
	Lab, Number	95-00202-455	AEL95008789	95-00203-456	95-00204-457	95-00205-458	95-00206-459	AEL96013182
Constituent	Units							
Dichlorobenzene, 1,3-	μ <b>g/kg</b>		<5.0					
Dichlorobenzene, 1,4-	μg/kg	1	<5.0	T				
Dichlorobromomethane	μg/kg	1	<5.0					
Dichlorodifluoromethane	μg/kg	I	<5.0					
Dichloroethane, 1, 1-	μ <b>g/kg</b>		<5.0					
Dichloroethane, 1,2-	μg/kg		<5.0					
Dichloroethylene, 1, 1-	μg/kg		<5.0					
Dichloroethylene, 1,2-	μg/kg							
Dichloroethylene, 1,2-cis-	μg/kg		<5.0					
Dichloroethylene, 1,2-trans-	μg/kg		<5.0					
Dichloropropane, 1,2-	μg/kg		<5.0					
Dichloropropylene,1,3-	μg/kg							
Dichloropropylene, 1, 3-cis-	μg/kg		<5.0					
Dichloropropylene, 1, 3-trans-	μg/kg		<5.0					
Dioxane, 1,4-	μg/kg							
Ethyl Methacrylate	μ <b>g/k</b> g							
Ethylbenzene	μg/kg		<5.0					
Ethylbenzene (screening)	μg/kg	<5		<5	<5	<5	<5	
Ethylene Dibromide	ha/ka							
Hexanone,2-	μg/kg		<13					<u> </u>
Iodomethane	μ <b>g/kg</b>							<u> </u>
Isobutyl Alcohol	μ <b>g/kg</b>							
Methacrylonitrile	μg/kg							
Methyl Bromide	μg/kg		<5.0					
Methyl Chloride	μ <b>g/kg</b>		<5.0					
Methyl Ethyl Ketone	µg∕kg		<13					
Methyl Methacrylate	μg/kg	T						
Methyl-2-pentanone,4-	μg/kg	T	<13					

Notes: I. Printed on 09/24/98

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### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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							Fage 0 0
Location ID	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-04	NK-SB-219
Sample ID	1006262	1006263	1006263	1006264	1006265	1006482	1021748
Sample Date	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	08/08/1995	11/13/1996
Sample Time	11:02	10:57	10:57	11:08	11:15	11:55	09:45
Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	0' - 2'
Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	AEL
Lab. Number	95-00202-455	AEL95008789	95-00203-456	95-00204-457	95-00205-458	95-00206-459	AEL96013182
Units							
μg/kg		<5.0					
μg/kg		<13					
μg/kg							
μg/kg		<5.0					
μg/kg		<5.0					
μ <b>g/k</b> g		<5.0					
μg/kg		<5.0					
μg/kg	<5		<5	<5	<5	<5	
μg/kg		<5.0					
μg/kg	<5		<5	<5	<5	<5	
μg/kg		<5.0					
μg/kg	<8		<8	<8	<8	<8	
μg/kg		<5.0					
μg/kg		<5.0					
μg/kg	<8		<8	<8	<8	<8	
μg/kg		<5.0					
μg/kg		<5.0					
μg/kg		<5.0					
μg/kg		<5.0					
μg/kg	<6		<6	<6	<6	<6	
μg/kg		<5.0					
μg/kg							
μ <b>g/kg</b>	ব		3	ব	3	ও	
	1			<u> </u>			
	<del> </del>	<del></del>	<del></del>		<del> </del>	<del></del>	<del></del>
	Sample ID Sample Date Sample Time Sample Depth Laboratory Lab. Number Unita  µg/kg  µg/kg	Sample ID 1006262  Sample Date 08/08/1995  Sample Time 11:02  Sample Depth 0'-2'  Laboratory LEA  Lab. Number 95-00202-455  Units	Sample ID   1006262   1006263     Sample Date   08/08/1995   08/08/1995     Sample Time   11:02   10:57     Sample Depth   0' - 2'   2' - 4'     Laboratory   LEA   AEL     Lab. Number   95-00202-455   AEL95008789     Units	Sample ID   1006262   1006263   1006263     Sample Date   08/08/1995   08/08/1995   08/08/1995     Sample Time   11:02   10:57   10:57     Sample Depth   0' - 2'   2' - 4'   2' - 4'     Laboratory   LEA   AEL   LEA     Lab. Number   95-00202-455   AEL95008789   95-00203-456     Units	Sample ID   1006262   1006263   1006263   1006264	Sample ID   1006262   1006263   1006263   1006264   1006265	Sample ID   1006262   1006263   1006263   1006264   1006265   1006482

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 7 of 6
	Location ID	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-220	NK-SB-220	NK-SB-220
	Sample ID	1021748	1021749	1021749	1021750	1021751	1021751	1021752
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	09:45	09:55	09:55	10:05	10:15	10:15	10:25
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	AEL	LEA	LEA	AEL	LEA	AEL
	Lab. Number	96-5895-487	AEL96013183	96-5896-488	96-5897-489	AEL96013184	96-5898-490	AEL96013185
Constituent	Units							
Date Metals Analysed	•							
Date Organics Analysed	•	11/14/1996		11/14/1996	11/14/1996		11/14/1996	
Date PCBs Analysed	-							
Date Physical Analysed	-		11/27/1996			11/27/1996		11/27/1996
Date Semi-volatile Organics Analysed	•							
Arrenic	mg/kg							
Barium	mg/kg	T						
Beryllium	mg/kg	`						
Cadmium	mg/kg	T						
Chromium	mg/kg							
Chromium (Total)	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Mercury	mg/kg	1						
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg	1						
PCB 1016	μg/kg							
PCB 1221	μg/kg	T						
PCB 1232	μg/kg			1				
PCB 1242	μg/kg	T						
PCB 1248	μg/kg							
PCB 1254	μg/kg	I						
PCB 1260	μg/kg							
Dibromo-3-chloropropane,1,2-	μg/kg	1		1	·   · · · · · · · · · · · · · · · · · ·		<del>                                     </del>	- <del> </del>
Total Petroleum Hydrocarbons	mg/kg	1	⊲39.2			⊲35.1	<del> </del>	<38.4
Acenaphthene	μg/kg	1	1	<del> </del>		<del>                                     </del>	<del>                                     </del>	<del>                                     </del>
		†	<del></del>	<del>- </del>	<del></del>	<del></del>	<del></del>	<del></del>

Notes: 1. Printed on 09/24/98

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### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 8 0
	Location ID	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-220	NK-SB-220	NK-SB-220
	Sample ID	1021748	1021749	1021749	1021750	1021751	1021751	1021752
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	09:45	09:55	09:55	10:05	10:15	10:15	10:25
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	AEL	LEA	LEA	AEL	LEA	AEL
	Lab, Number	96-5895-487	AEL96013183	96-5896-488	96-5897-489	AEL96013184	96-5898-490	AEL96013185
Constituent	Units							
Acenaphthylene	μg/kg							
Anthracene	μg/kg							
Benzidine	μg/kg							
Benzo[a]anthracene	μ <b>g/k</b> g							
Benzo[a]pyrene	μg/kg							
Benzo[b]fluoranthene	μ <b>g/k</b> g							
Benzo[ghi]perylene	μg/kg							
Benzo[k]fluoranthene	μg/kg							
Bis(2-chloroethoxy)methane	μg/kg							
Bis(2-chloroethyl)ether	μ <b>g/kg</b>							
Bis(2-ethylhexyl)phthalate	μ <b>g/kg</b>							
Bromophenyl Phenyl Ether,4-	μg/kg							
Butyl Benzyl Phthalate	μg/kg							
Carbazole	μg/kg							
Chloroaniline,4-	μg/kg							
Chloronaphthalene,2-	μg/kg							
Chlorophenol,2-	μg/kg							
Chlorophenyl Phenyl Ether,4-	μg/kg			1				
Chrysene	μg/kg							
Cresol,2-	μ <b>g/kg</b>							
Cresol,4-	μg/kg							
Di-n-butyl Phthalate	μg/kg	1						
Di-n-octyl Phthalate	μg/kg							
Dibenzo[a,h]anthracene	μg/kg							
Dibenzofuran	μg/kg							
Dichloro-2-butylene, 1,4-trans-	μg/kg							
Dichlorobenzidine,3,3'-	μg/kg							
Dichlorophenol,2,4-	μg/kg	1		1	·			

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 9 of
	Location ID	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-220	NK-SB-220	NK-SB-220
	Sample ID	1021748	1021749	1021749	1021750	1021751	1021751	1021752
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	09:45	09:55	09:55	10:05	10:15	10:15	10:25
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	AEL	LEA	LEA	AEL	LEA	AEL
	Lab. Number	96-5895-487	AEL96013183	96-5896-488	96-5897-489	AEL96013184	96-5898-490	AEL96013185
Constituent	Units							
Disthyl Phthalate	μg/kg							
Dimethyl Phthalate	μ <b>g/kg</b>							
Dimethylphenol,2,4-	μg/kg							
Dinitro-o-cresol, 4,6-	μg/kg							
Dinitrophenol,2,4-	μg/kg							
Dinitrotoluene,2,4-	μ <b>g/k</b> g							
Dinitrotohuene,2,6-	μg/kg							
Diphenylhydrazine,1,2-	μ <b>g/kg</b>							
Fluoranthene	μg/kg							
Phiorege	μ <b>g/k</b> g							
Hexachlorobenzene	μg/kg							
Hexachlorobutadiene	μg/kg							
Hexachlorocyclopentadiene	μg/kg							
Hexachloroethane	μg/kg							
Indeno(1,2,3-cd)pyrene	μ <b>g/kg</b>							
Isophorone	μg/kg							
Methylnaphthalene,2-	μg/kg							
N-nitrosodi-n-propylamine	μg/kg							
N-nitrosodimethylamine	μ <b>g/kg</b>							
N-nitrosodiphenylamine	μg/kg							
Naphthalene	μg/kg							
Nitroaniline,2-	μg/kg							
Nitroaniline,3-	μg/kg							
Nitroaniline,4-	μ <b>g/kg</b>							
Nitrobenzene	μg/kg							
Nitrophenol,2-	μ <b>g/kg</b>							
Nitrophenol,4-	μg/kg		T					
Pentachlorophenol	μg/kg	1						

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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NK-SB-220	NK-SB-220	NK-SB-220	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-219	Location ID	
1021752	1021751	1021751	1021750	1021749	1021749	1021748	Sample ID	
11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	Sample Date	
10:25	10:15	10:15	10:05	09:55	09:55	09:45	Sample Time	
2' - 4'	0' - 2'	0' - 2'	4' - 6'	2' - 4'	2' - 4'	0' - 2'	Sample Depth	
AEL	LEA	AEL	LEA	LEA	AEL	LEA	Laboratory	
AEL96013185	96-5898-490	AEL96013184	96-5897-489	96-5896-488	AEL96013183	96-5895-487	Lab. Number	
	1						Units	Constituent
							μ <b>g/kg</b>	Phenanthrene
							μg/kg	Phenol
							μg/kg	Propane),2,2'-oxybis(2-chloro-
							μg/kg	Pyrene
			,				μg/kg	Trichlorobenzene, 1, 2, 4-
							μg/kg	Trichlorophenol,2,4,5-
							μg/kg	Trichlorophenol,2,4,6-
							μg/kg	Acetone
							μg/kg	Acetonitrile
							μg/kg	Acrolein
							μg/kg	Acrylonitrile
							μg/kg	Allyl Chloride
							μg/kg	Benzene
	<7		<8	<6		<8	μg/kg	Benzene (screening)
							μg/kg	Bromobenzene
· · · · · · · · · · · · · · · · · · ·							μg/kg	Bromoform
							μg/kg	Carbon Disulfide
<del></del>							μg/kg	Carbon Tetrachloride
							μg/kg	Chlorobenzene
							μg/kg	Chlorodibromomethane
							μg/kg	Chloroethane
							μg/kg	Chloroethyl Vinyl Ether,2-
							μg/kg	Chloroform
							μg/kg	Chloroprene, beta-
							μg/kg	Chlorotoluene,o-
							μg/kg	Chlorotoluene,p-
							μg/kg	Dibromomethane
								Dichlorobenzene, 1,2-
							hake hake	Chlorotoluene,o- Chlorotoluene,p- Dibromomethane

#### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

	<del></del>	Y	7:	T			1	Page 11 c
	Location ID	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-220	NK-SB-220	NK-SB-220
	Sample ID	1021748	1021749	1021749	1021750	1021751	1021751	1021752
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	09:45	09:55	09:55	10:05	10:15	10:15	10:25
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	AEL	LEA	LEA	AEL	LEA	AEL
	Lab. Number	96-5895-487	AEL96013183	96-5896-488	96-5897-489	AEL96013184	96-5898-490	AEL96013185
Constituent	Units							
Dichlorobenzene, 1,3-	μg/kg							
Dichlorobenzene, 1,4-	μ <b>g/kg</b>							
Dichlorobromomethane	μ <b>g/kg</b>							
Dichlorodifluoromethane	μ <b>g/kg</b>							
Dichloroethane,1,1-	μ <b>g/kg</b>							
Dichloroethane,1,2-	μg/kg							
Dichloroethylene, l, l-	μg/kg							
Dichloroethylene, 1,2-	μg/kg							
Dichloroethylene, 1,2-cis-	μg/kg			Ī				
Dichloroethylene, 1,2-trans-	μg/kg							
Dichloropropane, 1,2-	μ <b>g/kg</b>							
Dichloropropylene, 1,3-	μ <b>g/</b> kg							
Dichloropropylene,1,3-cis-	μ <b>g/k</b> g							
Dichloropropylene, 1,3-trans-	μ <b>g/kg</b>							
Dioxane,1,4-	μg/kg							
Ethyl Methacrylate	μg/kg							
Ethylbenzene	μ <b>g/kg</b>							
Ethylbenzene (screening)	μg/kg	<16		<14	<17		<16	
Ethylene Dibromide	μg/kg						•	
Hexanone,2-	μg/kg							
[odomethane	μg/kg							
Isobutyl Alcohol	μg/kg	1						
Methacrylonitrile	μg/kg	T						1
Methyl Bromide	μg/kg							
Methyl Chloride	μg/kg			1				
Methyl Ethyl Ketone	μg/kg			1	<u> </u>			
Methyl Methacrylate	μg/kg	<u> </u>		†	<del></del>			<del> </del>
Methyl-2-pentanone,4-	μg/kg	1	<u> </u>					

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### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 12 of
	Location ID	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-219	NK-SB-220	NK-SB-220	NK-SB-220
	Sample ID	1021748	1021749	1021749	1021750	1021751	1021751	1021752
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	09:45	09:55	09:55	10:05	10:15	10:15	10:25
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	AEL	LEA	LEA	AEL	LEA	AEL
	Lab. Number	96-5895-487	AEL96013183	96-5896-488	96-5897-489	AEL96013184	96-5898-490	AEL96013185
Constituent	Units							
Methyl-tert-butyl Ether	μg/kg						<u>_</u>	
Methylene Chloride	μg/kg							
Propionitrile	μg/kg							
Styrene	μ <b>g/kg</b>							
Tetrachloroethane, 1, 1, 1, 2-	μg/kg							
Tetrachloroethane, 1, 1, 2, 2-	μ <b>g/kg</b>							
Tetrachloroethylene	μ <b>g/kg</b>							
Tetrachloroethylene (screening)	μ <b>g/kg</b>	<20		<17	<22		<20	
Toluene	μ <b>g/kg</b>							
Toluene (acreening)	μg/kg	<11		<10	<12		<11	
Trichloroethane, 1, 1, 1-	μg/ <b>kg</b>							
Trichloroethane, 1, 1, 1- (screening)	μ <b>g/kg</b>	<203		<170	<215		<199	
Trichloroethane, 1, 1, 2-	μg/kg							
Trichloroethylene	μg/kg							
Trichloroethylene (screening)	μg/kg	<20		<17	<21		<20	
Trichloromonofluoromethane	μg/kg							
Trichloropropane, 1,2,3-	μg/kg							
Vinyl Acetate	μg/kg							
Vinyl Chloride	μg/kg							
Xylene,o- (screening)	μg/kg							
Xylenes (Total)	μg/kg							
Xylenes (Total) (screening)	μg/kg	<32		<27	<34		<32	
Xylenes,m- & p- (screening)	μg/kg							

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 13 of 60
	Location ID	NK-SB-220	NK-SB-220	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221
	Sample ID	1021752	1021753	1021754	1021754	1021755	1021755	1021756
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	10:25	10:35	10:45	10:45	10:55	10:55	11:05
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	2' - 4'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	AEL
	Lab. Number	96-5902-494	96-5903-495	AEL96013186	96-5904-496	AEL96013187	96-5906-498	AEL96013188
Constituent	Units							
Date Metals Analysed	•							
Date Organics Analysed	-	11/14/1996	11/14/1996		11/14/1996		11/14/1996	
Date PCBs Analysed	-							
Date Physical Analysed	•			11/27/1996		12/03/1996		12/03/1996
Date Semi-volatile Organics Analysed	-							
Arsenic	mg/kg							
Barium	mg/kg							
Beryllium	mg/kg							
Cadmium	mg/kg							
Chromium	mg/kg							
Chromium (Total)	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg				1			
Zinc	mg/kg							
PCB 1016	μg/kg							
PCB 1221	μ <b>g/kg</b>							
PCB 1232	μg/kg							
PCB 1242	μg/kg							
PCB 1248	μg/kg							
PCB 1254	μ <b>g/kg</b>							
PCB 1260	μg/kg	]						
Dibromo-3-chloropropane,1,2-	μ <b>g/kg</b>							1
Total Petroleum Hydrocarbons	mg/kg			71.5		<36.6		<37.3
Acenaphthene	μg/kg				1			1

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-220	NK-SB-220	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221
	Sample ID	1021752	1021753	1021754	1021754	1021755	1021755	1021756
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	10:25	10:35	10:45	10:45	10:55	10:55	11:05
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	2' - 4'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	AEL
	Lab. Number	96-5902-494	96-5903-495	AEL96013186	96-5904-496	AEL96013187	96-5906-498	AEL96013188
Constituent	Units							
Acenaphthylene	μ <b>g/k</b> g							
Anthracene	μg/kg							
Benzidine	μg/kg							
Benzo[a]anthracene	μg/kg							
Benzo[a]pyrene	μg/kg							
Benzo[b]fluoranthene	μg/kg							
Benzo[ghi]perylene	μ <b>g/kg</b>							
Benzo[k]fluoranthene	μ <b>g/kg</b>							
Bis(2-chloroethoxy)methane	μg/kg							
Bis(2-chloroethyl)ether	µg/kg							
Bis(2-ethylhexyl)phthalate	μg/kg							
Bromophenyl Phenyl Ether,4-	μ <b>g/k</b> g							
Butyl Benzyl Phthalate	μg/kg							
Carbazole	μg/kg							
Chloroaniline,4-	μg/kg							
Chloronaphthalene,2-	μg/kg							
Chiorophenol,2-	μg/kg							
Chlorophenyl Phenyl Ether,4-	μ <b>g/k</b> g							
Chrysene	μg/kg							
Cresol,2-	μg/kg							
Cresol,4-	μg/kg							
Di-n-butyl Phthalate	μg/kg							
Di-n-octyl Phthalate	μg/kg							
Dibenzo[a,h]anthracene	μg/kg							
Dibenzofuran	μg/kg							
Dichloro-2-butylene, 1,4-trans-	μ <b>g/kg</b>							
Dichlorobenzidine,3,3'-	μg/kg							
Dichlorophenol, 2, 4-	μg/kg							
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### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 15 of
	Location ID	NK-SB-220	NK-SB-220	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221
	Sample ID	1021752	1021753	1021754	1021754	1021755	1021755	1021756
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	10:25	10:35	10:45	10:45	10:55	10:55	11:05
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	2' - 4'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	AEL
	Lab. Number	96-5902-494	96-5903-495	AEL96013186	96-5904-496	AEL96013187	96-5906-498	AEL96013188
Constituent	Units				<u> </u>			
Diethyl Phthalate	μg/kg							
Dimethyl Phthalate	μg/kg							
Dimethylphenol,2,4-	μg/kg							
Dinitro-o-cresol,4,6-	μg/kg							
Dinitrophenol,2,4-	μg/kg							
Dinitrotoluene,2,4-	μg/kg							
Dinitrotoluene,2,6-	μg/kg							
Diphenylhydrazine, 1,2-	μg/kg							
Fluoranthene	μ <b>g/kg</b>							
Fluorene	μg/kg							
Hexachlorobenzene	μg/kg				T			
Hexachlorobutadiene	µg/kg	,						
Hexachlorocyclopentadiene	μg/kg							
Hexachloroethane	μg/kg							
Indeno(1,2,3-cd)pyrene	μg/kg	Ţ						
Isophorone	μg/kg							1
Methylnaphthalene,2-	μg/kg							
N-nitrosodi-n-propylamine	μg/kg							
N-nitrosodimethylamine	μg/kg							
N-nitrosodiphenylamine	μg/kg							
Naphthalene	μg/kg							
Nitroaniline,2-	μ <b>g/kg</b>							
Nitroaniline,3-	μg/kg							
Nitroaniline,4-	μg/kg							
Nitrobenzene	μ <b>g/k</b> g							
Nitrophenol,2-	μg/kg							
					<del></del>	<del></del>	<del></del>	<del></del>
Nitrophenol,4-	μg/kg							

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 16 of
	Location ID	NK-SB-220	NK-SB-220	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221
	Sample ID	1021752	1021753	1021754	1021754	1021755	1021755	1021756
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	10:25	10:35	10:45	10:45	10:55	10:55	11:05
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	2' - 4'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	AEL
	Lab. Number	96-5902-494	96-5903-495	AEL96013186	96-5904-496	AEL96013187	96-5906-498	AEL96013188
Constituent	Units							
Phenanthrene	μ <b>g/k</b> g							
Phenol	μg/kg							
Propane),2,2'-oxybis(2-chloro-	μ <b>g/kg</b>							
Pyrene	μg/kg							
Trichlorobenzene, 1, 2, 4-	μ <b>g/kg</b>							
Trichlorophenol,2,4,5-	μg/kg							
Trichlorophenol,2,4,6-	μg/kg							
Acetone	μ <b>g/kg</b>							
Acetonitrile	μg/kg							
Acrolein	μg/kg							
Acrylonitrile	μg/kg							
Allyl Chloride	μ <b>g/kg</b>							
Benzene	μg/kg							
Benzene (screening)	μg/kg	<8	<8		<8 nc		<8	
Bromobenzene	μg/kg							
Bromoform	μg/kg							
Carbon Disulfide	μ <b>g/k</b> g							
Carbon Tetrachloride	μ <b>g/kg</b>							
Chlorobenzene	μg/kg							
Chlorodibromomethane	μg/kg							
Chloroethane	μg/kg							
Chloroethyl Vinyl Ether,2-	μg/kg							
Chloroform	μg/kg							
Chloroprene, beta-	μg/kg							
Chlorotoluene,o-	μg/kg							
Chlorotoluene,p-	μg/kg							
Dibromomethane	μg/kg							
Dichlorobenzene,1,2-	μg/kg				-			
							<u> </u>	



### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 17 of
	Location ID	NK-SB-220	NK-SB-220	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221
	Sample ID	1021752	1021753	1021754	1021754	1021755	1021755	1021756
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	10:25	10:35	10:45	10:45	10:55	10:55	11:05
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	2' - 4'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	AEL
	Lab. Number	96-5902-494	96-5903-495	AEL96013186	96-5904-496	AEL96013187	96-5906-498	AEL96013188
Constituent	Units							
Dichlorobenzene, 1,3-	μg/kg							
Dichlorobenzene,1,4-	μ <b>g/kg</b>							
Dichlorobromomethane	μ <b>g/kg</b>							
Dichlorodifluoromethane	μg/kg							
Dichloroethane,1,1-	μ <b>g/k</b> g							
Dichloroethane,1,2-	μ <b>g/kg</b>							
Dichloroethylene, 1, 1-	μg/kg							
Dichloroethylene, 1,2-	μg/kg							
Dichloroethylene, 1,2-cis-	μg/kg							
Dichloroethylene, 1,2-trans-	μ <b>g/kg</b>							
Dichloropropane, 1,2-	μg/kg							
Dichloropropylene,1,3-	μg/kg							
Dichloropropylene, 1, 3-cis-	μ <b>g/kg</b>							
Dichloropropylene, 1,3-trans-	μ <b>g/kg</b>							
Dioxane,1,4-	μ <b>g/kg</b>							
Ethyl Methacrylate	μ <b>g/kg</b>	T						
Ethylbenzene	μ <b>g/kg</b>							
Ethylbenzene (screening)	μ <b>g/k</b> g	<17	<16		<18 nc		<17	
Ethylene Dibromide	μg/kg							
Hexanone,2-	μ <b>g/kg</b>							
Iodomethane	μg/kg							
Isobutyi Alcohol	μg/kg							
Methacrylonitrile	μg/kg							
Methyl Bromide	μg/kg							
Methyl Chloride	μg/kg							
Methyl Ethyl Ketone	μ <b>g/kg</b>							
Methyl Methacrylate	μg/kg							
Methyl-2-pentanone,4-	μg/kg							

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 18 c
	Location ID	NK-SB-220	NK-SB-220	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221	NK-SB-221
	Sample ID	1021752	1021753	1021754	1021754	1021755	1021755	1021756
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	10:25	10:35	10:45	10:45	10:55	10:55	11:05
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	2' - 4'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	AEL
	Lab. Number	96-5902-494	96-5903-495	AEL96013186	96-5904-496	AEL96013187	96-5906-498	AEL96013188
Constituent	Units							
Methyl-tert-butyl Ether	μg/kg							
Methylene Chloride	μ <b>g/kg</b>							
Propionitrile	μg/kg							
Styrene	μg/kg							
Tetrachloroethane,1,1,1,2-	μ <b>g/kg</b>							
Tetrachloroethane, 1, 1, 2, 2-	µg/kg							
Tetrachloroethylene	μg/kg							
Tetrachloroethylene (screening)	μg/kg	<22	<21		<22 nc		<22	
Toluene	μg/kg							
Toluene (screening)	μg/kg	<12	<12		<13 nc		<12	
Trichloroethane, 1, 1, 1-	μ <b>g/kg</b>							
Trichloroethane, 1, 1, 1- (screening)	μg/kg	<215	<207		<224 nc		<215	
Trichloroethane, 1, 1, 2-	μg/kg							
Trichloroethylene	μg/kg							
Trichloroethylene (screening)	μg/kg	<21	<20		<22 nc		<21	
Trichloromonofluoromethane	μg/kg	<u> </u>						
Trichloropropane, 1, 2, 3-	μg/kg							1
Vinyl Acetate	μg/kg							
Vinyl Chloride	μg/kg							
Xylene,o- (screening)	μg/kg							
Xylenes (Total)	μg/kg							
Xylenes (Total) (screening)	μg/kg	<34	<33		<36 nc		⊲34	
Xylenes,m- & p- (screening)	μ <b>g/kg</b>							
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### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 19 01 66
	Location ID	NK-SB-221	NK-SB-221	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222
	Sample ID	1021756	1021757	1021758	1021758	1021759	1021759	1021760
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	11:05	11:15	11:20	11:20	11:25	11:25	11:30
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	LEA
	Lab. Number	96-5907-499	96-5908-500	AEL96013189	96-5909-501	AEL96013190	96-5910-502	96-5911-503
Constituent	Units	T						
Date Metals Analysed	-							
Date Organics Analysed	•	11/14/1996	11/14/1996		11/14/1996		11/14/1996	11/14/1996
Date PCBs Analysed								
Date Physical Analysed				12/03/1996		12/03/1996		
Date Semi-volatile Organics Analysed	-							
Arsenic	mg/kg							
Barium	mg/kg							
Beryllium	mg/kg							
Cadmium	mg/kg							
Chromium	mg/kg							
Chromium (Total)	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
PCB 1016	μ <b>g/kg</b>							
PCB 1221	μg/kg							
PCB 1232	μg/kg							
PCB 1242	μg/kg							
PCB 1248	μg/kg							
PCB 1254	μg/kg							
PCB 1260	με⁄κε							
Dibromo-3-chloropropane, 1,2-	μg/kg							
Total Petroleum Hydrocarbons	mg/kg			<34.9		⊲7.2		
Acenaphthene	μg/kg							

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 20 o
	Location ID	NK-SB-221	NK-SB-221	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222
	Sample ID	1021756	1021757	1021758	1021758	1021759	1021759	1021760
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	11:05	11:15	11:20	11:20	11:25	11:25	11:30
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	LEA
	Lab. Number	96-5907-499	96-5908-500	AEL96013189	96-5909-501	AEL96013190	96-5910-502	96-5911-503
Constituent	Units							
Acenaphthylene	μg/kg	l						
Anthracene	μg/kg							
Benzidine	μ <b>g/kg</b>							
Benzo[a]anthracene	μg/kg							
Benzo[a]pyrene	μ <b>g/kg</b>	1						
Benzo[b]fluoranthene	μ <b>g/kg</b>	<u> </u>						
Benzo[ghi]perylene	μ <b>g/kg</b>							
Benzo[k]fluoranthene	μ <b>g/kg</b>							
Bis(2-chloroethoxy)methane	μg/kg							
Bis(2-chloroethyl)ether	μg/kg							
Bis(2-sthylhexyl)phthalate	μ <b>g/kg</b>							
Bromophenyl Phenyl Ether,4-	μg/kg							
Butyl Benzyl Phthalate	μg/kg							
Carbazole	μ <b>g/kg</b>							
Chloroaniline,4-	μg/kg							
Chloronaphthalene,2-	μg/kg							
Chlorophenol,2-	μg/kg							
Chlorophenyl Phenyl Ether,4-	μg/kg							
Chrysene	μg/kg							
Cresol,2-	μg/kg							
Cresol,4-	μg/kg	<u> </u>						
Di-n-butyl Phthalate	μ <b>g/kg</b>							
Di-n-octyl Phthalate	μ <b>g/kg</b>							
Dibenzo[a,h]anthracene	μ <b>g/kg</b>							
Dibenzofuran	μ <b>g/kg</b>							
Dichloro-2-butylene, 1,4-trans-	µg/kg							
Dichlorobenzidine,3,3'-	μ <b>g/kg</b>							
Dichlorophenol,2,4-	μg/kg	1					<del> </del>	



### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

								Page 21 of 6
	Location ID	NK-SB-221	NK-SB-221	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222
	Sample ID	1021756	1021757	1021758	1021758	1021759	1021759	1021760
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	11:05	11:15	11:20	11:20	11:25	11:25	11:30
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	LEA
	Lab. Number	96-5907-499	96-5908-500	AEL96013189	96-5909-501	AEL96013190	96-5910-502	96-5911-503
Constituent	Units							
Diethyl Phthalate	μ <b>g/k</b> g							
Dimethyl Phthalate	μg/kg							
Dimethylphenol,2,4-	μ <b>g/kg</b>							
Dinitro-o-cresol, 4,6-	μg/kg							
Dinitrophenol,2,4-	μg/kg							
Dinitrotoluene,2,4-	μg/kg							
Dinitrotoluene,2,6-	μ <b>g/kg</b>							
Diphenylhydrazine,1,2-	μ <b>g/kg</b>							
Fluoranthene	μg/kg							
Fluorene	μg/kg							
Hexachlorobenzene	μg/kg							
Hexachlorobutadiene	μ <b>g/kg</b>							
Hexachlorocyclopentadiene	μg/kg							
Hexachloroethane	μ <b>g/kg</b>							
Indeno(1,2,3-od)pyrene	μg/kg							
Isophorone	μg/kg							
Methylnaphthalone,2-	μ <b>g/kg</b>							
N-nitrosodi-n-propylamine	μg/kg							
N-nitrosodimethylamine	μ <b>g/k</b> g							
N-nitrosodiphenylamine	μg/kg							
Naphthalene	μg/kg							
Nitroaniline,2-	μg/kg							
Nitroaniline,3-	μg/kg							
Nitroaniline, 4-	μg/kg							
Nitrobenzene	μg/kg							
Nitrophenol,2-	μg/kg							
Nitrophenol,4-	μg/kg							
Pentachlorophenol	μg/kg	1			<del></del>		1	

Notes: 1. Printed on 09/24/98

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# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 22 of
	Location ID	NK-SB-221	NK-SB-221	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222
	Sample ID	1021756	1021757	1021758	1021758	1021759	1021759	1021760
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	11:05	11:15	11:20	11:20	11:25	11:25	11:30
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	LEA
	Lab. Number	96-5907-499	96-5908-500	AEL96013189	96-5909-501	AEL96013190	96-5910-502	96-5911-503
Constituent	Units							
Phonanthrone	μ <b>g/kg</b>							
Phenol	μg/kg							
Propane),2,2'-oxybis(2-chloro-	μ <b>g/kg</b>							
Pyrene	μ <b>g/kg</b>							
Trichlorobenzene, 1, 2, 4-	μg/kg							
Trichlorophenol,2,4,5-	μg/ <b>kg</b>							
Trichlorophenol,2,4,6-	μg/kg							
Acetone	μg/kg							
Acetonitrile	μg/kg							
Acrolein	μg/kg							
Acrylonitrile	μg/kg							
Allyl Chloride	μg/kg							
Benzene	μg/kg							
Benzene (screening)	μg/kg	<8 nc	<8		<8 nc		<9 nc	<8
Bromobenzene	μg/kg							
Bromoform	μg/kg							
Carbon Disulfide	μg/kg							
Carbon Tetrachloride	μg/kg						I	
Chlorobenzene	μg/kg							
Chlorodibromomethane	μg/kg							
Chloroethane	μg/kg							
Chloroethyl Vinyl Ether,2-	μg/kg							
Chloroform	μg/kg							
Chloroprene, beta-	μg/kg							
Chlorotoluene,o-	μg/kg							
Chlorotoluene,p-	μg/kg							
Dibromomethane	μg/kg							
Dichlorobenzene,1,2-	μg/kg							
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### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-221	NK-SB-221	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222
	Sample ID	1021756	1021757	1021758	1021758	1021759	1021759	1021760
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	11:05	11:15	11:20	11:20	11:25	11:25	11:30
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	LEA
-	Lab. Number	96-5907-499	96-5908-500	AEL96013189	96-5909-501	AEL96013190	96-5910-502	96-5911-503
Constituent	Units							
Dichlorobenzene, 1,3-	μg/kg							
Dichlorobenzene,1,4-	μ <b>g/k</b> g							
Dichlorobromomethane	ha/ka							
Dichlorodifluoromethane	μg/kg							
Dichlorosthane,1,1-	μ <b>g/kg</b>							
Dichloroethane,1,2-	μg/kg							
Dichloroethylene, 1,1-	μg/kg							
Dichloroethylene,1,2-	μ <b>g/k</b> g							
Dichloroethylene,1,2-cis-	μg/kg							
Dichloroethylene, 1, 2-trans-	μg/kg							
Dichloropropane,1,2-	μg/kg							
Dichloropropylene, 1,3-	μg/kg	<u> </u>						
Dichloropropylene, 1,3-cis-	μ <b>g/k</b> g							
Dichloropropylene, 1,3-trans-	μ <b>g/k</b> g							
Dioxane,1,4-	μg/kg							
Ethyl Methacrylate	μ <b>g/k</b> g							
Ethylbenzene	μg/kg							
Ethylbenzene (screening)	μg/kg	<17 nc	<17		<17 nc		<19 nc	<17
Ethylene Dibromide	μg/kg							
Hexanone,2-	μg/kg							
Iodomethane	μg/kg							
Isobutyl Alcohol	μg/kg							,
Methacrylonitrile	μg/kg							
Methyl Bromide	μg/kg							
Methyl Chloride	μg/kg							
Methyl Ethyl Ketone	μg/kg							
Methyl Methacrylate	μg/kg							
Methyl-2-pentanone,4-	μg/kg							

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Fage 24 01
	Location ID	NK-SB-221	NK-SB-221	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222	NK-SB-222
	Sample ID	1021756	1021757	1021758	1021758	1021759	1021759	1021760
	Sample Date	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996	11/13/1996
	Sample Time	11:05	11:15	11:20	11:20	11:25	11:25	11:30
	Sample Depth	2' - 4'	4' - 6'	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	AEL	LEA	LEA
	Lab. Number	96-5907-499	96-5908-500	AEL96013189	96-5909-501	AEL96013190	96-5910-502	96-5911-503
Constituent	Units							
Methyl-tert-butyl Ether	μg/kg							
Methylene Chloride	μg/kg							
Propionitrile	µg/kg							
Styrene	μg/kg							
Tetrachloroethane, 1, 1, 1, 2-	μg/k <b>g</b>							
Tetrachloroethane, 1, 1, 2, 2-	μg/kg							
Tetrachloroethylene	μg/kg							
Tetrachloroethylene (screening)	μ <b>g/kg</b>	<22 nc	<21		<22 nc		<23 nc	<21
Toluene	μg/kg							
Toluene (screening)	μg/kg	<12 nc	<12		<12 nc		<13 nc	<12
Trichloroethane,1,1,1-	μg/kg							
Trichloroethane, 1, 1, 1- (screening)	μg/kg	<219 nc	<211		<219 no		<233 nc	<211
Trichloroethane,1,1,2-	μg/kg							
Trichloroethylene	μg/kg							
Trichloroethylene (screening)	μg/kg	<22 nc	<21		<22 nc		<23 nc	<21
Trichloromonofluoromethane	μg/kg							
Trichloropropane, 1, 2, 3-	μg/kg							
Vinyl Acetate	μg/kg							
Vinyl Chloride	μg/kg							
Xylene,o- (screening)	μg/kg							
Xylenes (Total)	μg/kg							
Xylenes (Total) (screening)	μg/kg	<35 nc	<33		<35 nc		<37 nc	<33
Xylenes,m- & p- (screening)	μg/kg							
		1						7

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-43						
	Sample ID	1017115	1017115	1017116	1017117	1017118	1017119	1017119
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	13:20	13:20	13:30	13:40	13:45	13:52	13:52
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'	6' - 8'	6' - 8'
	Laboratory	AEL	LEA	LEA	LEA	LEA	AEL	LEA
	Lab, Number	AEL96009144	96-3944-073	96-3945-074	96-3946-075	96-3947-076	AEL96009145	96-3948-077
Constituent	Units							
Date Metals Analysed	-	08/20/1996					08/20/1996	
Date Organics Analysed	-	08/22/1996	08/15/1996	08/15/1996	08/15/1996	08/15/1996	08/22/1996	08/15/1996
Date PCBs Analysed	•							
Date Physical Analysed	•	08/22/1996					08/30/1996	
Date Semi-volatile Organics Analysed	•	08/30/1996					08/30/1996	
Arsenic	mg/kg	<1.01					<1.1	
Barium	mg/kg	19.1					13.4	
Beryllium	mg/kg							
Cadmium	mg/kg	<3.04					<3.31	
Chromium	mg/kg	6.28					7.62	
Chromium (Total)	mg/kg							
Copper	mg/kg	6.18					5.74	
Lead	mg/kg	<20.2					<22.1	
Mercury	mg/kg	<0.202					<0.221	
Nickel	mg/kg	<10.1					<11	
Selenium	mg/kg	<1.01					<1.1	
Silver	mg/kg	<5.06					<5.52	
Zinc	mg/kg	20.6					19.1	
PCB 1016	μg/kg							
PCB 1221	μg/kg							
PCB 1232	μg/kg							
PCB 1242	μg/kg							
PCB 1248	μg/kg							
PCB 1254	μg/kg							
PCB 1260	μg/kg							
Dibromo-3-chloropropane, 1, 2-	µg/kg							
Total Petroleum Hydrocarbons	mg/kg	<34.2					<36.4	
Acenaphthene	μg/kg	<340					<370	

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

								Page 26 of 0
	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43
	Sample ID	1017115	1017115	1017116	1017117	1017118	1017119	1017119
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	13:20	13:20	13:30	13:40	13:45	13:52	13:52
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'	6' - 8'	6' - 8'
	Laboratory	AEL	LEA	LEA	LEA	LEA	AEL	LEA
	Lab. Number	AEL96009144	96-3944-073	96-3945-074	96-3946-075	96-3947-076	AEL96009145	96-3948-077
Constituent	Units							
Acenaphthylene	μg/kg	<340					⊲370	
Anthracene	μ <b>g/kg</b>	⊲40					⊲370	
Benzidine	μg/kg	<340					⊲370	
Benzo[a]anthracene	μg/kg	<340					<370	
Benzo[a]pyrene	μ <b>g/k</b> g	<340					<370	
Benzo[b]fluoranthene	μ <b>g/k</b> g	<340 N1					<370	
Benzo[ghi]perylene	μg/kg	<340					⊲370	
Benzo[k]fluoranthene	μg/kg	<340					<370	
Bis(2-chloroethoxy)methane	μ <b>g/k</b> g	<340					<370	
Bis(2-chloroethyl)ether	μ <b>g/k</b> g	<340					⊲370	
Bis(2-ethylhexyl)phthalate	μg/kg	<340					<370	
Bromophenyl Phenyl Ether,4-	μg/kg	<340					⊲370	
Butyl Benzyl Phthalate	μg/kg	<340					<370	
Carbazole	μg/kg							
Chlorosniline,4-	μg/kg							
Chloronaphthalene,2-	μg/kg	<340					⊲370	11.50
Chlorophenol,2-	μg/kg	<340					⊲370	
Chlorophenyl Phenyl Ether,4-	μg/kg	<340					<370	
Chrysene	μg/kg	<340					<370	
Cresol,2-	μg/kg							
Cresol,4-	μg/kg							
Di-n-butyl Phthalate	μg/kg	<860					<730	
Di-n-octyl Phthalate	μg/kg	<340					<370	
Dibenzo[a,h]anthracene	μg/kg	<340					<370	
Dibenzofuran	μg/kg					1		
Dichloro-2-butylene, 1,4-trans-	μg/kg							1
Dichlorobenzidine,3,3'-	μg/kg	<340	<u> </u>		<del></del>	<del> </del>	<370	
Dichlorophenol,2,4-	μg/kg	<340					<370	

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43
	Sample ID	1017115	1017115	1017116	1017117	1017118	1017119	1017119
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	13:20	13:20	13:30	13:40	13:45	13:52	13:52
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'	6' - 8'	6' - 8'
	Laboratory	AEL	LEA	LEA	LEA	LEA	AEL	LEA
	Lab. Number	AEL96009144	96-3944-073	96-3945-074	96-3946-075	96-3947-076	AEL96009145	96-3948-077
Constituent	Units							
Diethyl Phthalate	μg/kg	<340					<370	
Dimethyl Phthalate	μg/kg	<340					<370	
Dimethylphenol,2,4-	μ <b>g/kg</b>	<340					<370	
Dinitro-o-cresol,4,6-	μg/kg	<340					<370	
Dinitrophenol,2,4-	μg/kg	<340					<370	
Dinitrotoksene,2,4-	μg/kg	<340					<370	
Dinitrotoluene,2,6-	μg/kg	<340					<370	
Diphenylhydrazine,1,2-	μ <b>g/kg</b>	<340					<370	
Fluoranthene	μg/kg	<340 N1					<370	
Fluorene	μg/kg	<340					<370	
Hexachlorobenzene	μg/kg	<340					<370	
Hexachlorobutadiene	μg/kg	<340					<370	
Hexachlorocyclopentadiene	μg/kg	<340					<370	
Hexachloroethane	μg/kg	<340					<370	
Indeno(1,2,3-cd)pyrene	μg/kg	<340 N1					<370	
Isophorone	μg/kg	<340					<370	
Methylnaphthalene,2-	μg/kg		Ì					
N-nitrosodi-n-propylamine	μg/kg	<340					<370	
N-nitrosodimethylamine	μg/kg	<340					<370	
N-nitrosodiphenylamine	μg/kg	<340					<370	
Naphthalene	μg/kg	<340					⊲370	
Nitroaniline,2-	μ <b>g/kg</b>							
Nitroaniline,3-	μg/kg							
Nitroaniline,4-	μg/kg							
Nitrobenzene	μ <b>g/kg</b>	<340					<370	
Nitrophenol,2-	μg/kg	<340					⊲370	
Nitrophenol,4-	μg/kg	<340					<370	
Pentachlorophenol	μg/kg	<340		<u> </u>			<370	
V	<u> </u>		1					

Notes: 1. Printed on 09/24/98

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## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 28 of
	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43
	Sample ID	1017115	1017115	1017116	1017117	1017118	1017119	1017119
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	13:20	13:20	13:30	13:40	13:45	13:52	13:52
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'	6' - 8'	6' - 8'
	Laboratory	AEL	LEA	LEA	LEA	LEA	AEL	LEA
	Lab. Number	AEL96009144	96-3944-073	96-3945-074	96-3946-075	96-3947-076	AEL96009145	96-3948-077
Constituent	Units							
Phenanthrene	μg/kg	<340					<370	
Phenol	μ <b>g/kg</b>	<340					<370	
Propane),2,2'-oxybis(2-chloro-	μg/kg	<340					<370	
Pyrone	μg/kg	<340 N1					<370	
Trichlorobenzene, 1, 2, 4-	h <b>8/</b> kg	<340					<370	
Trichlorophenol,2,4,5-	μg/kg							
Trichlorophenol,2,4,6-	μg/kg	<340					<370	
Acetone	h8/k8	<20					<22	·
Acetonitrile	μg/kg							
Acrolein	μg/kg	<10					<11	
Acrylonitrile	μg/kg	<10					<11	
Allyl Chloride	μg/kg							
Benzene	μg/kg	<4.0					<4.4	
Benzene (screening)	μg/kg		<6	<7	<8	<8		<7
Bromobenzene	με/kg	<4.0					<4.4	
Bromoform	μ <b>g/kg</b>	<4.0					<4.4	
Carbon Disulfide	h8/k8	<4.0					<4.4	
Carbon Tetrachloride	μg/kg	<4.0					<4.4	
Chlorobenzene	μg/kg	<4.0					<4.4	
Chlorodibromomethane	μg/kg	<4.0					<4.4	
Chloroethane	μg/kg	<4.0					<4.4	
Chloroethyl Vinyl Ether,2-	μg/kg	<4.0					<4.4	
Chloroform	μg/kg	<4.0					<4.4	
Chloroprene, beta-	μg/kg							
Chlorotoluene,o-	μg/kg	<4.0					<4.4	
Chlorotoluene,p-	μg/kg	<4.0	1				<4.4	<u> </u>
Dibromomethane	μg/kg	<4.0	1				<4.4	
Dichlorobenzene, 1,2-	μg/kg	<4.0	<del>                                     </del>			<del>-  </del>	<4.4	
	1.0.0							

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 29 01 0
	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43
	Sample ID	1017115	1017115	1017116	1017117	1017118	1017119	1017119
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	13:20	13:20	13:30	13:40	13:45	13:52	13:52
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'	6' - 8'	6' - 8'
	Laboratory	AEL	LEA	LEA	LEA	LEA	AEL	LEA
	Lab. Number	AEL96009144	96-3944-073	96-3945-074	96-3946-075	96-3947-076	AEL96009145	96-3948-077
Constituent	Units							
Dichlorobenzene, 1,3-	μg/kg	<4.0					<4.4	
Dichlorobenzene, 1,4-	μg/kg	<4.0					<4.4	
Dichlorobromomethane	μg/kg	<4.0					<4.4	
Dichlorodifluoromethane	μg/kg	<4.0					<4.4	
Dichloroethane,1,1-	μg/kg	<4.0					<4.4	
Dichloroethane,1,2-	μg/kg	<4.0					<4.4	
Dichloroethylene, 1, 1-	μg/kg	<4.0					<4.4	
Dichloroethylene, 1,2-	μg/kg							
Dichloroethylene, 1, 2-cis-	μ <b>g/k</b> g	<4.0					<4.4	
Dichloroethylene, 1, 2-trans-	μ <b>g/</b> kg	<4.0					<4.4	
Dichloropropane, 1,2-	μg/kg	<4.0					<4.4	
Dichloropropylene,1,3-	μ <b>g/kg</b>							
Dichloropropylene,1,3-cis-	μg/kg	<4.0					<4.4	
Dichloropropylene, 1,3-trans-	μg/kg	<4.0					<4.4	
Dioxane, 1,4-	μg/kg							
Ethyl Methacrylate	μg/kg							
Ethylbenzene	μg/kg	<4.0					<4.4	
Ethylbenzene (screening)	μ <b>g/kg</b>		<13	<15	<17	<16		<14
Ethylene Dibromide	μg/kg							
Hexanone,2-	μg/kg	<9.9					. <11	
Iodomethane	μg/kg							
Isobutyl Alcohol	μ <b>g/kg</b>							1
Methacrylonitrile	μg/kg						· · · · · · · · · · · · · · · · · · ·	
Methyl Bromide	μg/kg	<4.0					<4.4	
Methyl Chloride	μg/kg	<4.0					<4.4	
Methyl Ethyl Ketone	μg/kg	<9.9					<11	
Methyl Methacrylate	μg/kg							
Methyl-2-pentanone,4-	μg/kg	<10					<11	
					··· <b>i</b>			1.

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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<u> </u>								Fage 30 01
	Location ID	NK-SB-43						
	Sample ID	1017115	1017115	1017116	1017117	1017118	1017119	1017119
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	13:20	13:20	13:30	13:40	13:45	13:52	13:52
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'	6' - 8'	6' - 8'
	Laboratory	AEL	LEA	LEA	LEA	LEA	AEL	LEA
	Lab. Number	AEL96009144	96-3944-073	96-3945-074	96-3946-075	96-3947-076	AEL96009145	96-3948-077
Constituent	Units							
Methyl-tert-butyl Ether	μg/kg	<4.0					<4.4	
Methylene Chloride	μg/kg	<4.0					<4.4	
Propionitrile	μ <b>g/kg</b>							
Styrene	μg/kg	<4.0					<4.4	
Tetrachloroethane,1,1,1,2-	μg/kg	<4.0					<4.4	
Tetrachloroethane, 1, 1, 2, 2-	μg/kg	<4.0					<4.4	
Tetrachloroethylene	μ <b>g/kg</b>	<4.0					<4.4	
Tetrachloroethylene (screening)	μg/kg		<16	<19	<21	<20		<18
Toluene	μg/kg	<4.0					<4.4	
Toluene (screening)	μ <b>g/kg</b>		<9	<11	<12	<11		<10
Trichloroethane,1,1,1-	μ <b>g/kg</b>	<4.0					<4.4	
Trichloroethane, 1, 1, 1- (screening)	μg/ <b>kg</b>	ŀ	<160	<188	<211	<203		<179
Trichloroethane,1,1,2-	μg/kg	<4.0					<4.4	
Trichloroethylene	μg/kg	<4.0					<4.4	
Trichloroethylene (screening)	μ <b>g/kg</b>	1	<16	<19	<21	<20		<18
Trichloromonofluoromethane	μg/kg	<4.0					<4.4	
Trichloropropane, 1, 2, 3-	μg/kg	<4.0					<4.4	
Vinyl Acetate	μg/kg	<4.0					<4.4	
Vinyl Chloride	μ <b>g/kg</b>	<4.0					<4.4	
Xylene,o- (screening)	μ <b>g/kg</b>							
Xylones (Total)	μg/kg	<4.0					<4.4	
Xylenes (Total) (screening)	μg/kg							
Xylenes,m- & p- (screening)	μ <b>g/kg</b>							
			1					

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 31 of
	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017120	1017121	1017122	1017123	1017124	1017124	1017125
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:00	14:10	14:14	14:19	14:30	14:30	14:40
	Sample Depth	8' - 10'	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	96-3949-078	96-3950-079	96-3951-080	96-3952-081	AEL96009146	96-3953-082	96-3954-083
Constituent	Units							
Date Metals Analysed	-					08/20/1996		
Date Organics Analysed	•	08/15/1996	08/15/1996	08/15/1996	08/15/1996	08/23/1996	08/15/1996	08/15/1996
Date PCBs Analysed								
Date Physical Analysed	•					08/30/1996		
Date Semi-volatile Organics Analysed	-					08/30/1996		
Amenic	mg/kg					<1.04		
Barium	mg/kg					17.6		
Beryllium	mg/kg							
Cadmium	mg/kg					⊲3.11		
Chromium	mg/kg					6.95		
Chromium (Total)	mg/kg							
Copper	mg/kg					5.6		
Load	mg/kg					<20.8		
Mercury	mg/kg					<0.208		
Nickel	mg/kg					<10.4		
Selenium	mg/kg					<1.04		
Silver	mg/kg					<5.19		
Zinc	mg/kg					21.9		
PCB 1016	μ <b>g/k</b> g							
PCB 1221	μ <b>g/kg</b>						-	
PCB 1232	μg/kg		_					
PCB 1242	μg/kg							
PCB 1248	μg/kg							
PCB 1254	μg/kg							
PCB 1260	μg/kg							
Dibromo-3-chloropropane, 1,2-	μg/kg			<del></del>	· · <del>  • · · · · · · · · · · · · · · · · · · </del>	<del> </del>	-	
Total Petroleum Hydrocarbons	mg/kg	1				328	<del>-</del>	
Acenaphthene	μg/kg	<del>                                     </del>			<del></del>	<340		

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 32 of
	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017120	1017121	1017122	1017123	1017124	1017124	1017125
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:00	14:10	14:14	14:19	14:30	14:30	14:40
	Sample Depth	8' - 10'	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	96-3949-078	96-3950-079	96-3951-080	96-3952-081	AEL96009146	96-3953-082	96-3954-083
Constituent	Units							
Acenaphthylene	μ <b>g/kg</b>					<340		
Anthracene	μg/kg					<340		
Benzidine	μg/kg					<340		
Benzo[a]anthracene	μg/kg					<340		
Benzo[a]pyrene	μg/kg					<340		
Benzo[b]fluoranthene	μg/kg					<340		
Benzo[ghi]perylene	μg/kg					<340		
Benzo[k]fluoranthene	μg/kg					<340		
Bis(2-chlorosthoxy)methane	μg/kg					<340		
Bis(2-chloroethyl)ether	μg/kg					<340		
Bis(2-sthylhexyl)phthalate	μg/kg					<340		
Bromophenyl Phenyl Ether,4-	μg/kg					<340		
Butyl Benzyl Phthalate	μg/kg					<340		
Carbazole	μg/kg							
Chloroaniline,4-	μg/kg							
Chloronaphthalene,2-	μg/kg					<340		
Chlorophenol,2-	μg/kg					<340		0.10
Chlorophenyl Phenyl Ether,4-	μg/kg					<340		
Chrysene	μ <b>g/kg</b>					<340		
Cresol,2-	μg/kg							
Cresol,4-	μg/kg							
Di-n-butyl Phthalate	μ <b>g/kg</b>					<690		
Di-n-octyl Phthalate	μg/kg					<340		
Dibenzo[a,h]anthracene	μg/kg					<340		
Dibenzofuran	μg/kg							
Dichloro-2-butylene, 1,4-trans-	μg/kg							
Dichlorobenzidine,3,3'-	μg/kg					<340		
Dichlorophenol,2,4-	μg/kg	1				⊲340	<u> </u>	

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 33 of 60
	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017120	1017121	1017122	1017123	1017124	1017124	1017125
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:00	14:10	14:14	14:19	14:30	14:30	14:40
	Sample Depth	8' - 10'	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	96-3949-078	96-3950-079	96-3951-080	96-3952-081	AEL96009146	96-3953-082	96-3954-083
Constituent	Units							
Diethyl Phthalate	μ <b>g/k</b> g					<340		
Dimethyl Phthalate	μg/kg	1				<340		
Dimethylphenol,2,4-	μg/kg					<340		
Dinitro-o-cresol, 4,6-	μg/kg	1				<340		
Dinitrophenol,2,4-	μg/kg					<340		
Dinitrotoluene,2,4-	μg/kg					<340		
Dinitrotoluene,2,6-	μg/kg					<340		
Diphenylhydrazine,1,2-	μg/kg					<340		
Fluoranthene	μg/kg					<340		
Phorene	μg/kg					<340		
Hexachlorobenzene	μ <b>g/kg</b>					<340		
Hexachlorobutadiene	μ <b>g/k</b> g					<340		
Hexachlorocyclopentadiene	μ <b>g/k</b> g					<340		
Hexachloroethane	μ <b>g/kg</b>					<340		
Indeno(1,2,3-cd)pyrene	μ <b>g/kg</b>					⊲340		
Isophorone	μ <b>g/kg</b>					<340		
Methylnaphthalene,2-	μ <b>g/kg</b>							
N-nitrosodi-n-propylamine	μ <b>g/kg</b>					<340		
N-nitrosodimethylamine	μg/kg	Ţ				<340		
N-nitrosodiphenylamine	μg/kg					<340		
Naphthalene	μg/kg					<340		
Nitroaniline,2-	μg/kg							
Nitroaniline,3-	μg/kg							
Nitroaniline,4-	μg/kg							
Nitrobenzene	μg/kg					<340		
Nitrophenol,2-	μg/kg					<340		
Nitrophenol,4-	μg/kg					<340		
Pentachlorophenol	μg/kg					<340		
		1		<del>                                     </del>		<del></del>	<del></del>	<del></del>

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								rage 34 UI
	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017120	1017121	1017122	1017123	1017124	1017124	1017125
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:00	14:10	14:14	14:19	14:30	14:30	14:40
	Sample Depth	8' - 10'	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	96-3949-078	96-3950-079	96-3951-080	96-3952-081	AEL96009146	96-3953-082	96-3954-083
Constituent	Units							
Phenanthrene	μg/kg					<340		
Phenol	μg/kg					<340		
Propane),2,2'-oxybis(2-chloro-	μ <b>g/kg</b>					<340		
Ругеце	μg/kg					<340		
Trichlorobenzene,1,2,4-	μg/kg					<340		
Trichlorophenol,2,4,5-	μg/kg							
Trichlorophenol,2,4,6-	μg/kg					<340		
Acetone	μg/kg					<21		
Acetonitrile	μg/kg							
Acrolein	μg/kg					<10		
Acrylonitrile	μg/kg					<10		
Allyl Chloride	μg/kg							
Benzene	μg/kg					<4.2		
Benzene (screening)	μ <b>g/kg</b>	<7	<8 nc	<8	<7		<7	<7
Bromobenzene	μg/kg					<4.2		
Bromoform	μg/kg					<4.2		
Carbon Disulfide	μg/kg					<4.2		
Carbon Tetrachloride	μ <b>g/kg</b>	Ţ.				<4.2		
Chlorobenzene	μg/kg					<4.2		
Chlorodibromomethane	μg/kg	1				<4.2		
Chloroethane	μg/kg					<4.2		
Chloroethyl Vinyl Ether,2-	μg/kg					<4.2		
Chloroform	μg/kg	T				<4.2		
Chloroprene, beta-	μg/kg							
Chlorotoluene,o-	μg/kg	İ .				<4.2		
Chlorotoluene,p-	μg/kg	T			<del></del>	<4.2		<b></b>
Dibromomethane	μg/kg		1	1		<4.2	1	
Dichlorobenzene, 1,2-	μg/kg	<u>†                                      </u>				<4.2	<del> </del>	

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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		75		1		1.00		Page 35 of
	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-\$B-43	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017120	1017121	1017122	1017123	1017124	1017124	1017125
· · · · · · · · · · · · · · · · · · ·	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:00	14:10	14:14	14:19	14:30	14:30	14:40
	Sample Depth	8' - 10'	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	96-3949-078	96-3950-079	96-3951-080	96-3952-081	AEL96009146	96-3953-082	96-3954-083
Constituent	Units							
Dichlorobenzene, 1,3-	μ <b>g/kg</b>					<4.2		
Dichlorobenzene, 1, 4-	μg/kg					<4.2		
Dichlorobromomethane	μ <b>g/kg</b>					<4.2		
Dichlorodifluoromethane	μ <b>g/k</b> g					<4.2		
Dichloroethane,1,1-	μ <b>g/k</b> g					<4.2		
Dichloroethane,1,2-	μg/kg					<4.2		
Dichloroethylene, 1, 1-	μg/kg					<4.2		
Dichloroethylene, 1,2-	μg/kg							
Dichlorosthylene, 1,2-cis-	μ <b>g/k</b> g					<4.2		
Dichloroethylene, 1, 2-trans-	μg/kg					<4.2		
Dichloropropane, 1, 2-	μg/kg					<4.2		
Dichloropropylene, 1,3-	µg/kg	Ī						
Dichloropropylene, 1,3-cis-	μg/kg					<4.2		
Dichloropropylene, 1,3-trans-	μ <b>g/kg</b>					<4.2		
Dioxans, 1,4-	μ <b>g/kg</b>							
Ethyl Methacrylate	μg/kg							
Ethylbenzene	μg/kg					<4.2		
Ethylbenzene (screening)	μ <b>g/kg</b>	<14	<17 nc	<16	<14		<15	<15
Ethylene Dibromide	μg/kg							
Hexanone,2-	μ <b>g/kg</b>	1	1			<10		
Iodomethane	μg/kg	1						1
Isobutyi Alcohol	μg/kg	<b>T</b>	1					
Methacrylonitrile	μ <b>g/kg</b>	<u> </u>			1			
Methyl Bromide	μg/kg	<del> </del>		<del>-  </del>		<4.2		1
Methyl Chloride	μg/kg				1	<4.2		
Methyl Ethyl Ketone	μg/kg					<10		
Methyl Methacrylate	μg/kg	1						
Methyl-2-pentanone,4-	μg/kg	<del>                                     </del>	<del> </del>	<del>                                     </del>	<del></del>	<10	<del> </del>	<del></del>

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## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-43	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017120	1017121	1017122	1017123	1017124	1017124	1017125
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:00	14:10	14:14	14:19	14:30	14:30	14:40
	Sample Depth	8' - 10'	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	96-3949-078	96-3950-079	96-3951-080	96-3952-081	AEL96009146	96-3953-082	96-3954-083
Constituent	Units		7.00000					
Methyl-tert-butyl Ether	μg/kg					<4.2		<u> </u>
Methylene Chloride	μg/kg	<b>†</b>				<4.2	<del></del>	
Propionitrile	μg/kg						<del></del>	<del></del>
Styrene	μg/kg				<del></del>	<4.2		
Tetrachloroethane, 1, 1, 1, 2-	μg/kg					<4.2		
Tetrachloroethane, 1, 1, 2, 2-	μg/kg					<4.2		
Tetrachloroethylene	μg/kg					<4.2		
Tetrachlorosthylene (screening)	μg/kg	<18	<22 nc	<20	<18		<18	<18
Toluene	μg/kg					<4.2		
Toluene (screening)	μg/kg	<10	<12 nc	<11	<10		<10	<10
Trichloroethane, 1, 1, 1-	μg/kg					<4.2		
Trichloroethane, 1, 1, 1- (screening)	μg/kg	<176	<219 nc	<203	<179		<182	<182
Trichloroethane, 1, 1,2-	μg/kg					<4.2		
Trichlorosthylene	μg/kg					<4.2		
Trichloroethylene (screening)	μg/ <b>kg</b>	<17	<22 nc	<20	<18		<18	<18
Trichloromonofluoromethane	μg/kg					<4.2		
Trichloropropane, 1, 2, 3-	μg/kg					<4.2		
Vinyl Acetate	μg/kg					<4.2		
Vinyl Chloride	μg/kg					<4.2		
Xylene,o- (screening)	μg/kg							
Xylenes (Total)	μg/kg					<4.2		
Xylenes (Total) (screening)	μg/kg							·
Xylenes,m- & p- (screening)	μg/kg							

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 37 of 66
	Location ID	NK-SB-44						
	Sample ID	1017126	1017127	1017127	1017128	1017129	1017130	1017131
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:50	14:58	14:58	15:04	15:09	15:15	15:25
	Sample Depth	4' - 6'	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA
	Lab. Number	96-3959-086	AEL96009228	96-3960-087	96-3961-088	96-3964-091	96-3963-090	96-3965-092
Constituent	Units							
Date Metals Analysed	•		08/22/1996					
Date Organics Analysed	•	08/16/1996	08/23/1996	08/16/1996	08/16/1996	08/16/1996	08/16/1996	08/16/1996
Date PCBs Analysed	•			1				
Date Physical Analysed			08/30/1996					
Date Semi-volatile Organics Analysed	•		09/10/1996					
Arsenic	mg/kg		<1.04					
Barium	mg/kg		12.9					
Beryllium	mg/kg							
Cadmium	mg/kg		<3.13					
Chromium	mg/kg		8.03					
Chromium (Total)	mg/kg							
Copper	mg/kg							
Lead	mg/kg		<20.8					
Mercury	mg/kg		<0.208					
Nickel	mg/kg		<10.4					
Selenium	mg/kg		<1.04					
Silver	mg/kg		<5.21					
Zinc	mg/kg		17					
PCB 1016	μg/kg							
PCB 1221	μg/kg							
PCB 1232	μg/kg							
PCB 1242	μg/kg							
PCB 1248	μg/kg							
PCB 1254	μg/kg							
PCB 1260	μg/kg							
Dibromo-3-chloropropane,1,2-	μg/kg							
Total Petroleum Hydrocarbons	mg/kg		<35.1					
Acenaphthene	μg/kg		<350					

#### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

								Page 38 of
	Location ID	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017126	1017127	1017127	1017128	1017129	1017130	1017131
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:50	14:58	14:58	15:04	15:09	15:15	15:25
	Sample Depth	4' - 6'	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA
	Lab. Number	96-3959-086	AEL96009228	96-3960-087	96-3961-088	96-3964-091	96-3963-090	96-3965-092
Constituent	Units							
Acenaphthylene	μg/kg		<350					
Anthraosne	μ <b>g/kg</b>		<350					
Benzidine	μ <b>g/kg</b>		<350					
Benzo[a]anthracene	μg/kg		<350					
Benzo[a]pyrene	μ <b>g/kg</b>		<350					
Benzo[b]fluoranthene	μg/kg		<350					
Benzo[ghi]perylene	μg/kg		<350					
Benzo[k]fluoranthene	μ <b>g/kg</b>		<350					
Bis(2-ohloroethoxy)methane	μg/kg		<350					
Bis(2-chloroethyl)ether	μg/kg		<350					
Bis(2-ethylhexyl)phthalate	μg/kg		<350					
Bromophenyl Phenyl Ether,4-	μg/kg		<350					
Butyl Benzyl Phthalate	μg/kg		<350					
Carbazole	μg/kg							
Chlorosniline,4-	μg/kg							
Chloronaphthalene,2-	μg/kg		<350					
Chlorophenol,2-	μ <b>g/kg</b>		<350					
Chlorophenyi Phenyi Ether,4-	μg/kg		<350					
Chrysene	μg/kg		<350					
Cresol,2-	μg/kg							
Cresol,4-	μg/kg							
Di-n-butyl Phthalate	μg/kg		<350					
Di-n-octyl Phthalate	μg/kg		<350					
Dibenzo[a,h]anthracene	μ <b>g/kg</b>		<350					
Dibenzofuran	μg/kg							1
Dichloro-2-butylene, 1,4-trans-	μg/kg			1				
Dichlorobenzidine,3,3'-	μg/kg		<350					
Dichlerophenol,2,4-	μg/kg		<350	<del>                                     </del>				

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 39 01 00
	Location ID	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017126	1017127	1017127	1017128	1017129	1017130	1017131
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:50	14:58	14:58	15:04	15:09	15:15	15:25
	Sample Depth	4' - 6'	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA
	Lab. Number	96-3959-086	AEL96009228	96-3960-087	96-3961-088	96-3964-091	96-3963-090	96-3965-092
Constituent	Units							
Diethyl Phthalate	μg/kg		<350					
Dimethyl Phihalate	ha/ka		<350					
Dimethylphenol,2,4-	μg/kg		<350					
Dinitro-o-cresol,4,6-	μ <b>g/kg</b>		<350					
Dinitrophenol,2,4-	μg/kg		<350					
Dinitrotoluene,2,4-	μg/kg		<350					
Dinitrotohuene,2,6-	μg/kg		<350					
Diphenylhydrazine,1,2-	μg/kg		<350					
Fluoranthene	μg/kg		<350					
Fluorene	μ <b>g/kg</b>		<350					
Hexachlorobenzene	μg/kg		<350					
Herrachlorobutadiene	μg/kg		<350					
Hexachlorocyclopentadiene	μg/kg		<350					
Hexachloroethane	μg/kg		<350					
Indeno(1,2,3-od)pyrene	μg/kg		<350					
Isophorone	μ <b>g/k</b> g		<350					
Methylnaphthalene,2-	μg/kg							
N-nitrosodi-n-propylamine	μg/kg		<350					
N-nitrosodimethylamine	μg/kg		<350					
N-nitrosodiphenylamine	μg/kg		<350					
Naphthalene	μg/kg		<350					
Nitroaniline,2-	μg/kg							
Nitroaniline,3-	μg/kg							
Nitroaniline,4-	μg/kg							
Nitrobenzene	μg/kg		<350		1			
Nitrophenol,2-	μg/kg		<350	<del>}</del>		<del> </del>		
Nitrophenol,4-	μg/kg		<350		<u> </u>	<del> </del>	1	
Pentachiorophenol	μg/kg		<350	<del>                                     </del>		<del> </del>	1	ļ ————
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## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 40 of
	Location ID	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017126	1017127	1017127	1017128	1017129	1017130	1017131
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:50	14:58	14:58	15:04	15:09	15:15	15:25
	Sample Depth	4' - 6'	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA
	Lab. Number	<b>96-3</b> 959-086	AEL96009228	96-3960-087	96-3961-088	96-3964-091	96-3963-090	96-3965-092
Constituent	Units							
Phonanthrone	μg/kg		<350					
Phenol	μg/kg		<350					
Propane),2,2'-oxybis(2-chloro-	μg/kg		<350					
Pyrene	μg/kg		<350					
Trichlorobenzene,1,2,4-	μ <b>g/kg</b>		<350					
Trichlorophenol,2,4,5-	μg/kg							
Trichlorophenol,2,4,6-	μg/kg		<350					
Acetone	μg/kg		<25					
Acetonitrile	μg/kg							
Acrolein	μg/kg		<13					
Acrylonitrile	μg/kg		<13					
Allyl Chloride	μ <b>g/kg</b>							
Benzene	μg/kg		<5.0					
Benzene (screening)	μg/kg	<7		<8	<7	<7	<7	<8
Bromobenzene	μg/kg		<5.0					
Bromoform	μ <b>g/kg</b>		<5.0					
Carbon Disulfide	μg/kg		<5.0					
Carbon Tetrachloride	μg/kg		<5.0					
Chlorobenzene	μ <b>g/kg</b>		<5.0					
Chlorodibromomethane	μg/kg		<5.0					
Chloroethane	μg/kg		<5.0					
Chloroethyl Vinyl Ether,2-	μg/kg		<5.0					
Chloroform	μg/kg		<5.0					
Chloroprene, beta-	μ <b>g/kg</b>		T					
Chlorotoluene,o-	μg/kg		<5.0					
Chlorotoluene,p-	μg/kg		<5.0					
Dibromomethane	μg/kg		<5.0					
Dichlorobenzene,1,2-	μg/kg	1	<5.0			<u> </u>		<u> </u>



## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

						_ <u></u>		Page 41 o
	Location ID	NK-SB-44						
	Sample ID	1017126	1017127	1017127	1017128	1017129	1017130	1017131
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	14:50	14:58	14:58	15:04	15:09	15:15	15:25
	Sample Depth	4' - 6'	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA
	Lab. Number	96-3959-086	AEL96009228	96-3960-087	96-3961-088	96-3964-091	96-3963-090	96-3965-092
Constituent	Units							
Dichlorobenzene,1,3-	μg/kg		<5.0					
Dichlorobenzene, 1,4-	μg/kg		<5.0					
Dichlorobromomethane	μg/kg		<5.0					
Dichlorodifluoromethane	μ <b>g/kg</b>		<5.0					
Dichloroethane, 1, 1-	μ <b>g/k</b> g		<5.0					
Dichloroethane,1,2-	μ <b>g/k</b> g		<5.0					
Dichloroethylene, I, 1-	μg/kg		<5.0					
Dichloroethylene, 1, 2-	μg/kg							
Dichloroethylene, 1,2-cis-	μg/kg		<5.0					
Dichloroethylene, 1,2-trans-	μg/kg		<5.0					
Dichloropropane, 1, 2-	μ <b>g/kg</b>		<5.0					
Dichloropropylene,1,3-	μg/kg							
Dichloropropylene, 1,3-cis-	μ <b>g/kg</b>		<5.0					
Dishloropropylene, 1,3-trans-	μg/kg		<5.0					
Dioxane, 1,4-	μg/kg							
Ethyl Methacrylate	μg/kg							
Ethylbenzene	μg/kg		<5.0					
Ethylbenzene (screening)	μg/kg	<16		<17	<16	<15	<15	<17
thylene Dibromide	μg/kg							
Hexanone,2-	μg/kg		<13					
odomethane	μg/kg							
sobutyl Alcohol	μg/kg							
Methacrylonitrile	μ <b>g/kg</b>							
Methyl Bromide	μ <b>g/kg</b>		<5.0					
Methyl Chloride	µg∕kg		<5.0					
Methyl Ethyl Ketone	μg/kg		<13					
Methyl Methacrylate	μg/kg							
Methyl-2-pentanone,4-	μg/kg		<13					

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44	NK-SB-44
	Sample ID	1017126	1017127	1017127	1017128	1017129	1017130	1017131
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
· · · · · · · · · · · · · · · · · · ·	Sample Time	14:50	14:58	14:58	15:04	15:09	15:15	15:25
	Sample Depth	4' - 6'	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA
	Lab. Number	96-3959-086	AEL96009228	96-3960-087	96-3961-088	96-3964-091	96-3963-090	96-3965-092
Constituent	Units							
Methyl-tert-butyl Ether	μg/kg		<5.0					
Methylene Chloride	μ <b>g/kg</b>		<5.0					
Propionitrile	μg/kg							
Styrene	μg/kg		<5.0					
Tetrachloroethane, 1, 1, 1, 2-	μg/kg		<5.0					
Tetrachloroethane, 1, 1, 2, 2-	μg/kg		<5.0					
Tetrachioroethylene	μ <b>g/kg</b>		<5.0					
Tetrachloroethylene (screening)	μg/kg	<20		<21	<20	<19	<19	<21
Toluene	μg/kg		<5.0					
Toluene (screening)	μg/kg	<11		<12	<11	<10	<11	<12
Trichloroethane, 1, 1, 1-	μ <b>g/kg</b>		<5.0					
Trichloroethane, 1, 1, 1- (screening)	μg/kg	<195		<211	<199	<185	<188	<211
Trichloroethane,1,1,2-	μ <b>g/k</b> g		<5.0					
Trichloroethylene	μg/kg		<5.0					
Trichloroethylene (screening)	μg/kg	<19		<21	<20	<18	<19	<21
Trichloromonofluoromethane	μg/kg		<5.0					
Trichloropropane, 1, 2, 3-	μg/kg		<5.0					
Vinyl Acetate	μg/kg		<5.0					
Vinyl Chloride	μg/kg		<5.0					
Xylene,o- (screening)	μg/kg							
Xylenes (Total)	μg/kg		<5.0					
Xylenes (Total) (screening)	μg/kg							
Xylenes,m- & p- (screening)	μg/kg							
		1						
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# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-45						
	Sample ID	1017132	1017132	1017133	1017134	1017135	1017135	1017136
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	15:40	15:40	15:50	15:53	16:07	16:07	16:15
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL96009229	96-3966-093	96-3967-094	96-3968-098	AEL96009230	96-3969-099	96-3970-100
Constituent	Units							
Date Metals Analysed	-	08/22/1996				08/22/1996		
Date Organics Analysed	•	08/23/1996	08/16/1996	08/16/1996	08/16/1996	08/23/1996	08/16/1996	08/16/1996
Date PCBs Analysed	-							
Date Physical Analysed	•	08/30/1996				08/30/1996		
Date Semi-volatile Organics Analysed	-	09/10/1996				09/10/1996		
Arsenic	mg/kg	5.87				<1.11		
Barium	mg/kg	62.4				14		
Beryllium	mg/kg							
Cadmium	mg/kg	<3.06				<3.33	4	
Chromium	mg/kg	12.4				6.11		
Chromium (Total)	mg/kg	<u> </u>						
Copper	mg/kg							
Load	mg/kg	<20.4				<22.2		
Mercury	mg/kg	<0.204				<0.222		
Nickel	mg/kg	<10.2				<11.1		
Selenium	mg/kg	<1.02				<1.11		
Silver	mg/kg	<5.1				<5.55		
Zinc	mg/kg	33.8				16.3		
PCB 1016	μg/kg							
PCB 1221	μg/kg							
PCB 1232	μg/kg							
PCB 1242	μ <b>g/kg</b>							
PCB 1248	ha/ka							
PCB 1254	μg/kg							
PCB 1260	μ <b>g/kg</b>							
Dibromo-3-chloropropane,1,2-	μg/kg							
Total Petroleum Hydrocarbons	mg/kg	<35.9				<36.8		
Acenaphthene	μg/kg	<360				<360		
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# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 44 of
	Location ID	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-45
	Sample ID	1017132	1017132	1017133	1017134	1017135	1017135	1017136
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	15:40	15:40	15:50	15:53	16:07	16:07	16:15
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL96009229	96-3966-093	96-3967-094	96-3968-098	AEL96009230	96-3969-099	96-3970-100
Constituent	Units							
Acenaphthylene	μg/kg	<360				<360		
Anthracene	μg/kg	<360				<360		
Benzidine	μg/kg	<360				<360		
Benzo[a]anthracene	μg/kg	<360 N1				<360		
Benzo[a]pyrene	μg/kg	<360 N1				<360		
Benzo[b]fluoranthene	µg/kg	<360 N1				<360		
Benzo[ghi]perylene	μg/kg	<360				<360		
Benzo[k]fluoranthene	μg/kg	<360 N1				<360		
Bis(2-chlorosthoxy)methane	μg/kg	<360				<360		
Bis(2-chloroethyl)ether	μ <b>g/kg</b>	<360				<360		
Bis(2-ethylhexyl)phthalate	μg/kg	<360				<360		
Bromophenyl Phenyl Ether,4-	μg/kg	<360				<360		
Butyl Benzyl Phthalate	μg/kg	<360				<360		
Carbazole	μg/kg							
Chloroaniline,4-	μg/kg							
Chloronaphthalene,2-	μg/kg	<360				<360		
Chlorophenol,2-	μg/kg	<360				⊲360		
Chlorophenyl Phenyl Ether,4-	μg/kg	<360				<360		
Chrysene	μ <b>g/kg</b>	<360 N1				⊲360		
Cresol,2-	μg/kg							
Crosol,4-	μg/kg							
Di-n-butyl Phthalate	μg/kg	<360				<360		
Di-n-octyl Phthalate	μg/kg	<360				<360		
Dibenzo[a,h]anthracene	μg/kg	<360				<360		
Dibenzofuran	μg/kg							
Dichloro-2-butylene, 1, 4-trans-	μg/kg	Ī						
Dichlorobenzidine,3,3'-	μg/kg	<360			<u> </u>	<360	<del> </del>	
Dichlorophenol,2,4-	μg/kg	<360	<u> </u>			<360	1	

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-45						
	Sample ID	1017132	1017132	1017133	1017134	1017135	1017135	1017136
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	15:40	15:40	15:50	15:53	16:07	16:07	16:15
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL96009229	96-3966-093	96-3967-094	96-3968-098	AEL96009230	96-3969-099	96-3970-100
Constituent	Units							
Diethyl Phthalate	μg/kg	<360				<360		
Dimethyl Phthalate	μ <b>g/kg</b>	<360				<360		
Dimethylphenol,2,4-	μ <b>g/kg</b>	<360				<360		
Dinitro-o-cresol, 4,6-	μg/kg	<360				<360		
Dinitrophenol,2,4-	μg/kg	<360				<360		
Dinitrotoluene,2,4-	μ <b>g/kg</b>	<360				<360		
Dinitrotoluene,2,6-	μg/kg	<360				<360		
Diphenylhydrazine, 1,2-	μg/kg	<360				<360		
Fluoranthene	μg/kg	<360 N1				<360		
Fluorene	μg/kg	<360				<360		
Hexachlorobenzene	μ <b>g/kg</b>	<360				<360		
Hexachlorobutadiene	μg/kg	<360				<360		
Herachlorocyclopentadiene	µg/kg	<360	1			<360		
Hexachloroethane	μ <b>g/kg</b>	⊲360				⊲360		
Indeno(1,2,3-cd)pyrene	μ <b>g/kg</b>	<360 N1				<360		
Isophorone	μ <b>g/kg</b>	<360				<360		
Methylnaphthalene,2-	μ <b>g/kg</b>							
N-nitrosodi-n-propylamine	μg/ <b>kg</b>	<360				<360		
N-nitrosodimethylamine	μg/kg	<360				<360		
N-nitrosodiphenylamine	μ <b>g/kg</b>	<360				<360		
Naphthalene	μ <b>g/kg</b>	<360				<360		
Nitroaniline,2-	μg/kg							
Nitroaniline,3-	µg/kg							
Nitroaniline,4-	μg/kg							
Nitrobenzene	μ <b>g/kg</b>	<360				<360		
Nitrophenol,2-	μg/kg	<360				<360		
Nitrophenol,4-	μg/kg	<360	1.			<360		
Pentachlorophenol	μg/kg	<360				<360		
			1			1		

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 46 01
	Location ID	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-45
	Sample ID	1017132	1017132	1017133	1017134	1017135	1017135	1017136
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	15:40	15:40	15:50	15:53	16:07	16:07	16:15
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL96009229	96-3966-093	96-3967-094	96-3968-098	AEL96009230	96-3969-099	96-3970-100
Constituent	Units							
Phenanthrene	μg/kg	<360 N1				<360		
Phenol	μg/kg	<360				<360		
Propane),2,2'-oxybis(2-chloro-	μ <b>g/kg</b>	<360				⊲60		
Pyrene	μ <b>g/kg</b>	<360 N1				<360		
Trichlorobenzene, 1, 2, 4-	μg/kg	<360				<360		
Trichlorophenol,2,4,5-	ha\r							
Trichlorophenol,2,4,6-	μg/kg	<360				<360		
Acetone	μg/kg	<26				<29		
Acetonitrile	hā/kā							
Acrolein	μg/kg	<13				<14		
Acrylonitrile	μg/kg	<13				<14		
Allyi Chloride	μ <b>g/kg</b>							
Benzene	μg/kg	<5.2				<5.7		
Benzene (screening)	μg/kg		<7	<8	<6		<8 no	<8 nc
Bromobenzene	μg/kg	<5.2				<5.7		
Bromoform	μg/kg	<5.2				<5.7		
Carbon Disulfide	μg/kg	<5.2				<5.7		
Carbon Tetrachloride	μg/kg	<5.2				<5.7		
Chlorobenzene	μg/kg	<5.2				<5.7		
Chlorodibromomethane	μg/kg	<5.2				<5.7		
Chloroethane	μg/kg	<5.2				<5.7		
Chloroethyl Vinyl Ether,2-	μg/kg	<5.2				<5.7		
Chloroform	μg/kg	<5.2				<5.7		
Chloroprene, beta-	μg/kg							
Chlorotoluene,o-	μg/kg	<5.2				<5.7		
Chlorotoluene,p-	μg/kg	<5.2				<5.7		
Dibromomethane	μg/kg	<5.2				<5.7		
Dichlorobenzene, 1, 2-	μg/kg	<5.2				<5.7	<del>                                     </del>	<del></del>

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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,	Location ID	NK-SB-45						
	Sample ID	1017132	1017132	1017133	1017134	1017135	1017135	1017136
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	15:40	15:40	15:50	15:53	16:07	16:07	16:15
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL96009229	96-3966-093	96-3967-094	96-3968-098	AEL96009230	96-3969-099	96-3970-100
Constituent	Units							
Dichlorobenzene, 1,3-	μ <b>g/kg</b>	<5.2				<5.7		
Dichlorobenzene, 1,4-	μg/kg	<5.2				<5.7		
Dichlorobromomethane	μg/kg	<5.2				<5.7		
Dichlorodifluoromethane	μg/kg	<5.2				<5.7		
Dichlorosthane,1,1-	μg/kg	<5.2				<5.7		
Dichlorosthane,1,2-	μg/kg	<5.2				<5.7		
Dichlorosthylene, 1, 1-	μg/kg	<5.2				<5.7		
Dichloroethylene,1,2-	μg/kg							
Dichloroethylene,1,2-cis-	μg/kg	<5.2				<5.7		
Dichlorosthylene,1,2-trans-	μg/kg	<5.2				<5.7		
Dichloropropane, 1,2-	μg/kg	<5.2				<5.7		
Dichloropropylene,1,3-	μg/kg							
Dichloropropylene,1,3-cis-	μg/kg	<5.2				<5.7		
Dichloropropylene,1,3-trans-	μg/kg	<5.2				<5.7		
Dioxana,1,4-	μg/kg							
Ethyl Methacrylate	μg/kg							
Ethylbenzene	μg/kg	<5.2				<5.7		
Ethylbenzene (screening)	μg/kg		<16	<16	<12		<17 nc	<18 nc
Ethylene Dibromide	μg/kg							
Hexanone,2-	μg/kg	<13				<14		
Iodomethane	μg/kg							
Isobutyl Alcohol	μg/kg							
Methacrylonitrile	μg/kg							
Methyl Bromide	μg/kg	<5.2				<5.7		
Methyl Chloride	μg/kg	<5.2				<5.7		
Methyl Ethyl Ketone	μg/kg	<13				<14		
Methyl Methacrylate	μg/kg							
Methyl-2-pentanone,4-	μg/kg	<13	1			<14		

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-45						
	Sample ID	1017132	1017132	1017133	1017134	1017135	1017135	1017136
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996	08/12/1996
	Sample Time	15:40	15:40	15:50	15:53	16:07	16:07	16:15
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL96009229	96-3966-093	96-3967-094	96-3968-098	AEL96009230	96-3969-099	96-3970-100
Constituent	Units							
Methyl-tert-butyl Ether	μg/kg	<5.2				<5.7		
Methylene Chloride	μg/kg	<5.2				<5.7		
Propionitrile	μg/kg							
Styrene	μg/kg	<5.2				<5.7		
Tetrachloroethane, 1, 1, 1, 2-	μg/kg	<5.2				<5.7		
Tetrachloroethane, 1, 1, 2, 2-	μg/kg	<5.2				<5.7		
Tetrachloroethylene	μg/kg	<5.2				<5.7		
Tetrachloroethylene (screening)	μg/kg		<20	<20	<16		<22 nc	<23 nc
Tokuene	μg/kg	<5.2				<5.7		
Toluene (screening)	μ <b>g/kg</b>		<11	<11	<9		<12 nc	<13 nc
Trichloroethane,1,1,1-	μg/kg	<5.2				<5.7		
Trichloroethane, 1, 1, 1- (screening)	μg/kg		<199	<203	<156		<219 nc	<229 nc
Trichloroethane, 1, 1, 2-	μg/kg	<5.2				<5.7		
Trichloroethylene	μg/kg	<5.2				<5.7		
Trichloroethylene (screening)	μg/kg		<20	<20	<15		<22 nc	<23 nc
Trichloromonofluoromethane	μg/kg	<5.2				<5.7		
Trichloropropane,1,2,3-	μg/kg	<5.2				<5.7		
Vinyl Acetate	μg/kg	<5.2				<5.7		
Vinyl Chloride	μg/kg	<5.2				<5.7		
Xylene,o- (screening)	μg/kg							
Xylenes (Total)	μg/kg	<5.2				<5.7		
Xylenes (Total) (screening)	μ <b>g/kg</b>	1						
Xylenes,m- & p- (screening)	μ <b>g/kg</b>							

### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46
	Sample ID	1017137	1017138	1017139	1017141	1017141	1017142	1017143
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996
	Sample Time	16:21	16:29	16:35	10:40	10:40	10:50	11:00
	Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA
	Lab. Number	96-3971-101	96-3972-102	96-3973-103	AEL96009231	96-3976-106	96-3977-107	96-3978-108
Constituent	Units							
Date Metals Analysed					08/22/1996			
Date Organics Analysed	•	08/16/1996	08/16/1996	08/16/1996	08/23/1996	08/16/1996	08/16/1996	08/16/1996
Date PCBs Analysed	•							
Date Physical Analysed	•				08/30/1996			
Date Semi-volatile Organics Analysed					09/10/1996			
Arsenic	mg/kg				<1.1			
Barium	mg/kg				20.1			
Beryllium	mg/kg							
Cadmium	mg/kg_				<3.29			
Chromium	mg/kg				<5.48			
Chromium (Total)	mg/kg							
Copper	mg/kg							
Lead	mg/kg				<21.9			
Mercury	mg/kg				0.233			
Nickel	mg/kg				<11			
Selenium	mg/kg				<1.1			
Silver	mg/kg				<5.48			
Zinc	mg/kg				20.6			
PCB 1016	μg/kg							
PCB 1221	ha/ka							
PCB 1232	μg/kg							
PCB 1242	μg/kg							
PCB 1248	μg/kg							
PCB 1254	μg/kg							
PCB 1260	μg/kg	1						
Dibromo-3-chloropropane, 1,2-	μg/kg							
Total Petroleum Hydrocarbons	mg/kg				<35.0			
Acenaphthene	μg/kg	1			⊲350			
					<del> </del>			

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46
	Sample ID	1017137	1017138	1017139	1017141	1017141	1017142	1017143
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996
	Sample Time	16:21	16:29	16:35	10:40	10:40	10:50	11:00
	Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA
	Lab. Number	96-3971-101	96-3972-102	96-3973-103	AEL96009231	96-3976-106	96-3977-107	96-3978-108
Constituent	Units							
Acenaphthylene	μ <b>g/k</b> g				<350			
Anthracene	μg/kg				<350			
Benzidine	μg/kg				<350			
Benzo[a]anthracene	μ <b>g/kg</b>				<350			
Benzo[a]pyrene	μg/kg				<350			
Benzo[b]fluoranthene	μg/kg				<350			
Benzo[ghi]perylene	μg/kg				<350			
Benzo[k]fluoranthene	μg/kg				<350			
Bis(2-chloroethoxy)methane	μg/kg				⊲50			
Bis(2-chloroethyl)ether	μg/kg				⊲50			
Bis(2-ethylhexyl)phthalate	μg/kg				⊲350			
Bromophenyl Phenyl Ether,4-	μg/kg				⊲50			
Butyl Benzyl Phthalate	μg/kg				⊲350			
Carbazole	μg/kg							
Chloroaniline,4-	μg/kg							
Chloronaphthalene,2-	μ <b>g/kg</b>				<350			
Chlorophenoi,2-	μg/kg				<350			
Chlorophenyi Phenyi Ether,4-	μg/kg	1			<350			
Chrysene	μg/kg				<350			
Cresol,2-	μg/kg							
Cresol,4-	μg/kg							
Di-n-butyi Phthalate	μg/kg				<350			
Di-n-octyl Phthalate	μg/kg	1			⊲350			
Dibenzo[a,h]anthracene	μg/kg				<350			1
Dibenzofuran	μg/kg					1		
Dichloro-2-butylene, 1,4-trans-	μg/kg							
Dichlorobenzidine,3,3'-	μg/kg				<350			<u> </u>
Dichlorophenol,2,4-	μg/kg	1			<350		<del>-  </del>	



### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46
	Sample ID	1017137	1017138	1017139	1017141	1017141	1017142	1017143
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996
	Sample Time	16:21	16:29	16:35	10:40	10:40	10:50	11:00
	Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA
	Lab. Number	96-3971-101	96-3972-102	96-3973-103	AEL96009231	96-3976-106	96-3977-107	96-3978-108
Constituent	Units							
Diethyl Phthalate	μg/kg				<350			
Dimethyl Phthalate	μg/kg				<350			
Dimethylphenol,2,4-	μg/kg				⊲350			
Dinitro-o-cresol, 4,6-	μg/kg				<350			
Dinitrophenol,2,4-	μg/kg				<350			
Dinitrotohuene,2,4-	μg/kg				<350			
Dinitrotoluene,2,6-	μg/kg				<350			
Diphenylhydrazine,1,2-	μg/kg				<350			
Fluoranthene	μg/kg				⊲50			
Fluorene	μg/kg				⊲350			
Hexachlorobenzene	μg/kg				⊲350			
Herachlorobutadiene	μg/kg				<350			
Herachlorocyclopentadiene	μg/kg				⊲50			
Hexachlorosthane	μg/kg				⊲350			
Indeno(1,2,3-cd)pyrene	μg/kg				<350			
Isophorone	μg/kg				⊲350			
Methylnaphthalene,2-	μ <b>g/kg</b>							
N-nitrosodi-n-propylamine	μg/kg				⊲50			
N-nitrosodimethylamine	μg/kg				<350			
N-nitrosodiphenylamine	μg/kg				⊲350			
Naphthalene	μg/kg				<350			
Nitroaniline,2-	μg/kg							
Nitroaniline,3-	μg/kg							
Nitroeniline,4-	μg/kg							
Nitrobenzene	μg/kg				<350			
Nitrophenol,2-	μg/kg		1		⊲350			
Nitrophenol,4-	μg/kg				⊲350			
Pentachlorophenol	μg/kg	1			⊲350			

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Loostion ID	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46
	Sample ID	1017137	1017138	1017139	1017141	1017141	1017142	1017143
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996
	Sample Time	16:21	16:29	16:35	10:40	10:40	10:50	11:00
	Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA
	Lab. Number	96-3971-101	96-3972-102	96-3973-103	AEL96009231	96-3976-106	96-3977-107	96-3978-108
Constituent	Units							
Phenanthrene	μg/kg				<350			
Phenol	μg/kg				<350			
Propane),2,2'-oxybis(2-chloro-	μg/kg				<350			
Pyrene	μ <b>g/kg</b>				<350			
Trichlorobenzene, 1,2,4-	μ <b>g/kg</b>				⊲50			
Trichlorophenol,2,4,5-	µg/kg							
Trichlorophenol,2,4,6-	μg/kg				<350			
Acetone	μ <b>g/kg</b>				<23			
Acetonitrile	μ <b>g/kg</b>							
Acrolein	μg/kg				<11			
Acrylonitrile	μg/kg				<11			
Allyl Chloride	μg/kg							
Benzene	μ <b>g/kg</b>				<4.5			
Benzene (screening)	μg/kg	<7	<7	<8		<8	<8	<7
Bromobenzene	μg/kg				<4.5			
Bromoform	μg/kg				<4.5			
Carbon Disulfide	μ <b>g/kg</b>				<4.5			
Carbon Tetrachloride	μg/kg				<4.5			
Chlorobenzene	μ <b>g/kg</b>				<4.5			
Chlorodibromomethane	μ <b>g/kg</b>				<4.5			
Chloroethane	μg/kg				<4.5			
Chloroethyl Vinyl Ether,2-	μg/kg				<4.5			
Chloroform	μg/kg				<4.5			
Chloroprene, beta-	μg/kg							
Chlorotoluene,o-	μg/kg				<4.5			
Chlorotoluene,p-	μ <b>g/kg</b>				<4.5			
Dibromomethane	μg/kg				<4.5			
Dichlorobenzene, 1, 2-	μg/kg				<4.5			



# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46
	Sample ID	1017137	1017138	1017139	1017141	1017141	1017142	1017143
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996
	Sample Time	16:21	16:29	16:35	10:40	10:40	10:50	11:00
	Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA
	Lab, Number	96-3971-101	96-3972-102	96-3973-103	AEL96009231	96-3976-106	96-3977-107	96-3978-108
Constituent	Units							
Dichlorobenzene, 1,3-	μ <b>g/kg</b>				<4.5			
Dichlorobenzene, 1,4-	μg/kg				<4.5			
Dichlorobromomethane	μg/kg				<4.5			
Dichlorodifluoromethane	μ <b>g/kg</b>				<4.5			
Dichloroethane,1,1-	μg/kg				<4.5			
Dichloroethane,1,2-	μg/kg				<4.5			
Dichloroethylene,1,1-	μ <b>g/kg</b>				<4.5			
Dichloroethylene,1,2-	μg/kg							
Dichloroethylene,1,2-cis-	μ <b>g/kg</b>				<4.5			
Dichloroethylene, 1,2-trans-	μg/kg				<4.5			
Dichloropropane, 1,2-	μ <b>g/kg</b>				<4.5			
Dichloropropylene,1,3-	μg/kg							
Dichloropropylene,1,3-cis-	μ <b>g/kg</b>				<4.5			
Dichloropropylene, 1, 3-trans-	μ <b>g/kg</b>				<4.5			
Dioxane,1,4-	μg/kg							
Ethyl Methacrylate	μg/kg							
Ethylbenzene	μg/kg				<4.5			
Ethylbenzene (screening)	μg/kg	<15	<15	<17		<17	<17	<16
Ethylene Dibromide	μg/kg							
Hexanone,2-	μ <b>g/kg</b>				<11			
Iodomethane	μg/kg							
Isobutyl Alcohol	μg/kg							
Methacrylonitrile	μg/kg							
Methyl Bromide	μg/kg				<4.5			
Methyl Chloride	μg/kg				<4.5			
Methyl Ethyl Ketone	μ <b>g/kg</b>				<11			
Methyl Methacrylate	μg/kg							
Methyl-2-pentanone,4-	μg/kg				<11			
		1	<del></del>		<del></del>	<del> </del>	<del></del>	<del></del>

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-45	NK-SB-45	NK-SB-45	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46
	Sample ID	1017137	1017138	1017139	1017141	1017141	1017142	1017143
	Sample Date	08/12/1996	08/12/1996	08/12/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996
	Sample Time	16:21	16:29	16:35	10:40	10:40	10:50	11:00
	Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA
	Lab. Number	96-3971-101	96-3972-102	96-3973-103	AEL96009231	96-3976-106	96-3977-107	96-3978-108
Constituent	Units							
Methyl-tert-butyl Ether	μg/kg				<4.5			
Methylene Chloride	μg/kg				<7.9			
Propionitrile	μg/kg							
Styrene	μg/kg				<4.5			
Tetrachloroethane, 1, 1, 1, 2-	μg/kg				<4.5			
Tetrachloroethane,1,1,2,2-	μg/kg				<4.5			
Tetrachloroethylene	μg/kg				<4.5			
Tetrachloroethylene (screening)	μg/kg	<19	<19	<21		<22	<21	<20
Toluene	μg/kg				<4.5 N1			
Toluene (screening)	μg/kg	<10	<11	<12		<12	<12	<11
Trichloroethane, 1, 1, 1-	μg/kg				<4.5			
Trichloroethane, 1, 1, 1- (screening)	μg/kg	<185	<188	<211		<215	<211	<199
Trichloroethane, 1, 1, 2-	μ <b>g/kg</b>				<4.5			
Trichloroethylene	μg/ <b>kg</b>				<4.5			
Trichloroethylene (screening)	μg/kg	<18	<19	<21		<21	<21	<20
Trichloromonofluoromethane	μg/kg				<4.5			
Trichloropropane, 1, 2, 3-	μg/kg				<4.5			
Vinyl Acetate	μg/kg				<4.5			
Vinyl Chloride	μg/kg				<4.5			
Xylene,o- (screening)	μg/kg							
Xylenes (Total)	μg/kg				<4.5 N1			
Xylenes (Total) (screening)	μg/kg							
Xylenes,m- & p- (screening)	μg/kg							
	1:3-3				1	† <del></del>		
					<u> </u>			
		T				†	1	
						<del> </del>		
		<u> </u>		<del></del>	<del> </del>	+		

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 33 of G
	Location ID	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SS-14
	Sample ID	1017144	1017144	1017145	1017146	1017147	1017148	01015061793
	Sample Date	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	06/17/1993
	Sample Time	11:10	11:10	11:20	11:30	11:40	00:50	
	Sample Depth	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'	
	Laboratory	AEL	LEA	LEA	LEA	LEA	LEA	ENS
	Lab. Number	AEL96009232	96-3979-109	96-3980-110	96-3981-111	96-3982-112	96-3983-113	0291110001SA
Constituent	Units							
Date Metals Analysed	•	08/22/1996						06/28/1993
Date Organics Analysed	•	08/23/1996	08/16/1996	08/16/1996	08/16/1996	08/16/1996	08/16/1996	06/23/1993
Date PCBs Analysed	•							06/28/1993
Date Physical Analysed	•	<b>08/3</b> 0/1996						
Date Semi-volatile Organics Analysed		09/10/1996						06/25/1993
Arsenic	mg/kg	<0.98						<0.54
Barium	mg/kg	13.5						27.8
Berytlium	mg/kg							0.23
Cadmium	mg/kg	<2.95						<0.54
Chromium	mg/kg	6.3						
Chromium (Total)	mg/kg	1						5.5
Copper	mg/kg		1					
Lead	mg/kg	<19.7						3.6
Mercury	mg/kg	<0.197						<0.11
Nickel	mg/kg	<9.8						4.7
Selenium	mg/kg	<0.984						<0.54
Silver	mg/kg	<4.92						<1.1
Zinc	mg/kg	16.5						13.8
PCB 1016	μg/kg							<8.9
PCB 1221	μg/kg							<8.9
PCB 1232	μg/kg							<8.9
PCB 1242	μg/kg							<8.9
PCB 1248	μg/kg							<8.9
PCB 1254	μg/kg						J-5 1W	<8.9
PCB 1260	μg/kg							<8.9
Dibromo-3-chloropropane, 1,2-	µg/kg							
Total Petroleum Hydrocarbons	mg/kg	<35.4						1
Acenaphthene	μg/kg	⊲350				<del></del>		⊲60

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 36 OI
	Location ID	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SS-14
	Sample ID	1017144	1017144	1017145	1017146	1017147	1017148	01015061793
	Sample Date	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	06/17/1993
	Sample Time	11:10	11:10	11:20	11:30	11:40	00:50	
	Sample Depth	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'	
	Laboratory	AEL	LEA	LEA	LEA	LEA	LEA	ENS
	Lab. Number	AEL96009232	96-3979-109	96-3980-110	96-3981-111	96-3982-112	96-3983-113	0291110001SA
Constituent	Units							
Acenaphthylene	μ <b>g/kg</b>	<350						<360
Anthracene	μ <b>g/kg</b>	<350						<360
Benzidine	μg/kg	<350						
Benzo[a]anthracene	μ <b>g/kg</b>	<350						<360
Benzo[a]pyrene	μg/kg	<350						<360
Benzo[b]fluoranthene	μg/kg	<350						<360
Benzo[ghi]perylene	μ <b>g/kg</b>	⊲50						<360
Benzo[k]fluoranthene	μg/kg	<350						<360
Bis(2-chlorosthoxy)methane	μ <b>g/kg</b>	<350						<360
Bis(2-chloroethyl)ether	μ <b>g/kg</b>	<350						<360
Bis(2-othylhexyl)phthalate	μg/kg	<350						<360
Bromophenyl Phenyl Ether,4-	μg/ <b>kg</b>	⊲350						<360
Butyl Benzyl Phthalate	μ <b>g/<b>kg</b></b>	<350						<360
Carbazole	μg/kg							<360
Chloroaniline,4-	μg/kg							<360
Chloronaphthalene,2-	μg/kg	<350						<360
Chlorophenol,2-	μg/kg	<350						<360
Chlorophenyl Phenyl Ether,4-	μg/kg	<350						<360
Chrysene	μg/kg	<350						<360
Cresol,2-	μg/kg							<360
Cresol,4-	μg/kg							<360
Di-n-butyl Phthalate	μg/kg	<350						<360
Di-n-octyl Phthalate	μg/kg	<350						<360
Dibenzo[a,h]anthracene	μg/kg	<350						<360
Dibenzofuran	μg/kg							⊲360
Dichloro-2-butylene, 1,4-trans-	μg/kg							
Dichlorobenzidine,3,3'-	μg/kg	<350						<710
Dichlorophenol,2,4-	μg/kg	<350						<360



### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 37 of
	Location ID	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SS-14
	Sample ID	1017144	1017144	1017145	1017146	1017147	1017148	01015061793
	Sample Date	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	06/17/1993
	Sample Time	11:10	11:10	11:20	11:30	11:40	00:50	
	Sample Depth	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'	
	Laboratory	AEL	LEA	LEA	LEA	LEA	LEA	ENS
	Lab. Number	AEL96009232	96-3979-109	96-3980-110	96-3981-111	96-3982-112	96-3983-113	0291110001SA
Constituent	Units							
Diethyl Phthalate	μg/kg	<350						⊲360
Dimethyl Phthalate	μg/kg	<350						<360
Dimethylphenol,2,4-	μg/kg	<350						<360
Dinitro-o-cresol, 4,6-	μ <b>g/kg</b>	<350						<1700
Dinitrophenol,2,4-	μg/kg	<350						<1700
Dinitrotoluene,2,4-	μg/kg	⊲50						<360
Dinitrotohuene,2,6-	μg/kg	⊲50						<360
Diphenylhydrazine,1,2-	μg/kg	<350						
Fluoranthene	μg/kg	<350						<360
Phyorene	μg/kg	<350						<360
Hexachlorobenzene	μg/kg	<350						⊲360
Hexachlorobutadiene	μg/kg	<350						⊲360
Herachlorocyclopentadiene	μg/kg	⊲50						<360
Hexachloroethane	μg/kg	⊲50						<360
Indeno(1,2,3-od)pyrene	μg/kg	⊲50						⊲60
Isophorone	μg/kg	⊲50						<360
Methylnaphthalene,2-	μg/kg	I.						⊲60
N-nitrosodi-n-propylamine	μg/kg	⊲50						<360
N-nitrosodimethylamine	μg/kg	<350						
N-nitrosodiphenylamine	μg/kg	<350						⊲360
Napinhalene	μg/kg	<350						⊲360
Nitroaniline,2-	μg/kg							<1700
Nitroaniline,3-	μg/kg							<1700
Nitroeniline,4-	μg/kg							<1700
Nitrobenzene	μ <b>g/kg</b>	<350						<360
Nitrophenol,2-	μg/kg	⊲350	1					<360
Nitrophenol,4-	μg/kg	<350	1					<1700
Pentachiorophenol	μg/kg	<350	<b>T</b>	<del>-  </del>		1		<1700

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 38 01
	Location ID	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SS-14
	Sample ID	1017144	1017144	1017145	1017146	1017147	1017148	01015061793
	Sample Date	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	06/17/1993
	Sample Time	11:10	11:10	11:20	11:30	11:40	00:50	
	Sample Depth	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'	
	Laboratory	AEL	LEA	LEA	LEA	LEA	LEA	ENS
	Lab. Number	AEL96009232	96-3979-109	96-3980-110	96-3981-111	96-3982-112	96-3983-113	0291110001SA
Constituent	Units							
Phenanthrene	μ <b>g/kg</b>	<350						<360
Phenol	μ <b>g/kg</b>	<350						<360
Propane),2,2'-oxybis(2-chloro-	μ <b>g/kg</b>	⊲350						<360
Pyrene	μg/kg	<350						<360
Frichlorobenzene, 1, 2, 4-	μg/kg	⊲350						<360
Trichlorophenol,2,4,5-	μg/kg							<1700
Trichlorophenol,2,4,6-	μg/kg	<350						⊲60
Acetone	μ <b>g/kg</b>	<26						<11
Acetonitrile	μg/kg							
Acrolein	μg/kg	<13						
Acrylonitrile	μg/kg	<13						
Allyl Chloride	μg/kg							
Benzene	μ <b>g/kg</b>	<5.1						<5.4
Benzene (screening)	μg/kg		<1	<7	<8	<8 nc	<9 nc	
Bromobenzene	μg/kg	<5.1						
Bromoform	μg/kg	<5.1						<5.4
Carbon Disulfide	μg/kg	<5.1						<5.4
Carbon Tetrachloride	μg/kg	<5.1						<5.4
Chlorobenzene	μg/kg	<5.1						<5.4
Chlorodibromomethane	μg/ <b>kg</b>	<5.1						<5.4
Chloroethane	μg/kg	<5.1						<11
Chloroethyl Vinyl Ether,2-	μg/kg	<5.1						
Chloroform	μg/kg	<5.1						<5.4
Chloroprene, beta-	μg/kg							
Chlorotoluene,o-	μg/kg	<5.1						
Chlorotohuene,p-	μg/kg	<5.1						<360
Dibromomethane	μg/kg	<5.1						
Dichlorobenzens, 1, 2-	μg/kg	<5.1					<u> </u>	<360

## Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 59 of
	Location ID	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SS-14
	Sample ID	1017144	1017144	1017145	1017146	1017147	1017148	01015061793
	Sample Date	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	06/17/1993
	Sample Time	11:10	11:10	11:20	11:30	11:40	00:50	
	Sample Depth	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'	
	Laboratory	AEL	LEA	LEA	LEA	LEA	LEA	ENS
	Lab. Number	AEL96009232	96-3979-109	96-3980-110	96-3981-111	96-3982-112	96-3983-113	0291110001SA
Constituent	Units							
Dichlorobenzene,1,3-	μg/kg	<5.1						<360
Dichlorobenzene,1,4-	μ <b>g/kg</b>	<5.1						<360
Dichlorobromomethane	μ <b>g/k</b> g	<5.1						<5.4
Dichlorodifluoromethane	μg/kg	<5.1						
Dichloroethane, 1, 1-	μg/kg	<5.1						<5.4
Dichloroethane, 1,2-	μ <b>g/k</b> g	<5.1						<5.4
Dichloroethylene,1,1-	μg/kg	<5.1						<5.4
Dichloroethylene,1,2-	μg/kg							<5.4
Dichloroethylene,1,2-cis-	μ <b>g/kg</b>	<5.1						
Dichloroethylene,1,2-trans-	μg/kg	<5.1						
Dichloropropane, 1,2-	μ <b>8</b> /kg	<5.1						<5.4
Dichloropropylene, 1,3-	μ <b>g/k</b> g							
Dichloropropylene, 1,3-cis-	μg/kg	<5.1						<5.4
Dichloropropylene, 1, 3-trans-	μg/kg	<5.1						<5.4
Dioxane,1,4-	μ <b>g/kg</b>							
Ethyl Methacrylate	μ <b>g/kg</b>							
Ethylbenzene	μg/kg	<5.1					1	<5.4
Ethylbenzene (screening)	μg/kg		<16	<16	<17	<18 nc	<19 nc	
Ethylene Dibromide	μg/kg							
Hexanone,2-	µg/kg	<13						<11
odomethane	μg/kg							
isobutyl Alcohol	µg/kg							
Methacrylonitrile	μg/kg							
Methyl Bromide	μ <b>g/k</b> g	<5.1						<11
Methyl Chloride	μg/kg	<5.1						<11
Methyl Ethyl Ketone	μg/kg	<13						<11
Methyl Methacrylate	μg/kg							
Methyl-2-pentanone,4-	μg/kg	<13						<11

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SB-46	NK-SS-14
	Sample ID	1017144	1017144	1017145	1017146	1017147	1017148	01015061793
	Sample Date	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	08/13/1996	06/17/1993
_	Sample Time	11:10	11:10	11:20	11:30	11:40	00:50	
	Sample Depth	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	14' - 15'	
	Laboratory	AEL	LEA	LEA	LEA	LEA	LEA	ENS
	Lab. Number	AEL96009232	96-3979-109	96-3980-110	96-3981-111	96-3982-112	96-3983-113	0291110001SA
Constituent	Units							
Methyl-tert-butyl Ether	μg/kg	<5.1						
Methylene Chloride	μg/kg	<5.1						<5.4
Propionitrile	μg/kg	<u> </u>						
Styrene	μg/kg	<5.1						<5.4
Tetrachloroethane,1,1,1,2-	μg/kg	<5.1						
Tetrachloroethane, 1, 1, 2, 2-	μg/kg	<5.1						<5.4
Tetrachioroethylene	μg/kg	<5.1						<5.4
Tetrachloroethylene (screening)	μg/kg		<20	<20	<21	<23 nc	<23 nc	
Toluene	μg/kg	<5.1						<5.4
Toluene (screening)	μg/kg		<11	<11	<12	<13 nc	<13 nc	
Trichloroethane, 1, 1, 1-	μg/kg	<5.1						<5.4
Trichloroethane, 1, 1, 1- (screening)	μg/kg		<195	<199	<211	<229 nc	<233 nc	
Trichloroethane, 1, 1, 2-	μg/kg	<5.1						<5.4
Trichloroethylene	μg/kg	<5.1						<5.4
Trichloroethylene (screening)	μg/kg		<19	<20	<21	<23 nc	<23 nc	
Trichloromonofluoromethane	μg/kg	<5.1						
Trichloropropane, 1, 2, 3-	μg/kg	<5.1						
Vinyl Acetate	μg/kg	<5.1						<11
Vinyl Chloride	μg/kg	<5.1						<11
Xylene,o- (screening)	μ <b>g/kg</b>							
Xylenes (Total)	μg/kg	<5.1						<5.4
Xylenes (Total) (screening)	μg/kg							
Xylenes,m- & p- (screening)	μg/kg							
					1			
		<u> </u>	1					

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### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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	Location ID	NK-TP-14B	NK-TP-14E	NK-TP-14N	NK-TP-14S	NK-TP-14W	
	Sample ID	1635143	1635141	1635139	1635140	1635142	
	Sample Date	06/09/1997	06/09/1997	06/09/1997	06/09/1997	06/09/1997	
	Sample Time	09:30	09:25	09:20	09:22	09:27	
	Sample Depth						
	Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN	
	Lab. Number	A7F100149034	A7F100149032	A7F100149030	A7F100149031	A7F100149033	
Constituent	Units						
Date Metals Analysed	•	06/26/1997	06/26/1997	06/26/1997	06/26/1997	06/26/1997	
Data Organics Analysed		06/21/1997	06/21/1997	06/20/1997	06/21/1997	06/21/1997	
Date PCBs Analysed	•						
Date Physical Analysed	-	06/24/1997	06/24/1997	06/24/1997	06/24/1997	06/24/1997	
Data Semi-volatile Organics Analysed	•						
Arsenic	mg/kg	<1.3 U	<1.2 U	<1.1 U	<1.1 U	<1.1 U	
Barium	mg/kg	<19.6 U	<17.4 U	23.9	<16.1 U	<17.0 U	
Beryllium	mg/kg						
Cadmium	mg/kg	<0.13 U	<0.12 U	<0.11 U	<0.11 U	<0.11 U	
Chromium	mg/kg	7.9	6.9	9.8	6.0	6.3	
Chromium (Total)	mg/kg						
Copper	mg/kg						
Lead	mg/kg	6.1	3.5	3.1	3.3	3.3	
Mercury	mg/kg	<0.20 U	<0.17 U	<0.16 U	<0.16 U	<0.17 U	
Nickel	mg/kg	6.7	7.2	9.0	5.2	6.6	
Selenium	mg/kg	<1.0 U	<0.93 U	<0.86 U	<0.86 U	<0.91 U	
Silver	mg/kg	<3.9 U	<3.5 U	<3.2 U	<3.2 U	<3.4 U	
Zinc	mg/kg	<19.6 U	26.0	22.2	16.8	18.1	
PCB 1016	μ <b>g/kg</b>						
PCB 1221	μg/kg						
PCB 1232	μ <b>g/kg</b>						
PCB 1242	μ <b>g/kg</b>						
PCB 1248	μg/kg						
PCB 1254	μg/kg						
PCB 1260	µg/kg						
Dibromo-3-chloropropane, 1,2-	μ <b>g/k</b> g	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U	
Total Petroleum Hydrocarbons	mg/kg	<65 U	<58 U	<54 U	<54 U	<57 U	
Acenaphthene	μg/kg						
		T	1	T	<u> </u>	1	



### Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Fage 62 01 00
	Location ID	NK-TP-14B	NK-TP-14E	NK-TP-14N	NK-TP-14S	NK-TP-14W		
	Sample ID	1635143	1635141	1635139	1635140	1635142		
	Sample Date	06/09/1997	06/09/1997	06/09/1997	06/09/1997	06/09/1997		
	Sample Time	09:30	09:25	09:20	09:22	09:27		
	Sample Depth							
	Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
	Lab. Number	A7F100149034	A7F100149032	A7F100149030	A7F100149031	A7F100149033		
Constituent	Units							
Acenaphthylene	μg/kg							
Anthracene	μg/kg							
Benzidine	μg/kg							
Benzo[a]anthracene	μg/kg							
Benzo[a]pyrene	μg/kg							
Benzo(b)finoranthene	μg/kg							
Benzo[ghi]perylene	μg/kg							
Benzo[k]fluoranthene	μ <b>g/kg</b>							
Bis(2-chloroethoxy)methane	μg/kg							
Bis(2-chloroethyl)ether	μg/kg							
Bis(2-sthylhexyl)phthalate	μg/kg							
Bromophenyl Phenyl Ether,4-	μg/kg							
Butyl Benzyl Phthalate	μg/kg							
Carbazole	μg/kg							
Chloroaniline,4-	μg/kg							
Chloronaphthalene,2-	μg/kg							
Chlorophenol,2-	μg/kg							
Chlorophenyl Phenyl Ether,4-	μg/kg							
Chrysene	μ <b>g/kg</b>							
Cresol,2-	μg/kg							
Cresol,4-	μg/ <b>kg</b>							
Di-n-butyl Phthalate	μg/kg							
Di-n-octyl Phthalate	μg/kg							
Dibenzo[a,h]anthracene	μg/kg							
Dibenzofuran	μg/kg							
Dichloro-2-butylene, 1, 4-trans-	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Dichlorobenzidine,3,3'-	μg/kg							
Dichlorophenol,2,4-	μg/kg				<u> </u>		<del> </del>	
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# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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		_						Page 63 of 66
	Location ID	NK-TP-14B	NK-TP-14E	NK-TP-14N	NK-TP-14S	NK-TP-14W		
	Sample ID	1635143	1635141	1635139	1635140	1635142		
	Sample Date	06/09/1997	06/09/1997	06/09/1997	06/09/1997	06/09/1997		
	Sample Time	09:30	09:25	09:20	09:22	09:27		
-	Sample Depth							
	Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
	Lab. Number	A7F100149034	A7F100149032	A7F100149030	A7F100149031	A7F100149033		
Constituent	Units							<u> </u>
Diethyl Phthalate	μg/kg							
Dimethyl Phthalate	μg/kg							
Dimethylphenol,2,4-	μg/ <b>kg</b>						Ī	
Dinitro-o-cresol,4,6-	μg/kg							
Dinitrophenol,2,4-	μg/kg							
Dinitrotoluene,2,4-	μg/kg							
Dinitrotoluene,2,6-	μg/kg							
Diphenylhydrazine,1,2-	μg/kg							
Fluoranthene	μ <b>g/kg</b>							
Fluorene	μ <b>g/kg</b>							
Hexachiorobenzene	μg/kg							
Hexachlorobutadiene	μg/kg							
Hexachlorocyclopentadiene	μ <b>g/kg</b>							
Hexachloroethane	μ <b>g/kg</b>							
Indeno(1,2,3-cd)pyrene	μg/kg							
Isophorone	μg/kg							
Methylnaphthalene,2-	μg/kg							
N-nitrosodi-n-propylamine	μg/kg							
N-nitrosodimethylamine	μg/kg							
N-nitrosodiphenylamine	μg/kg							
Naphthalene	μg/kg							
Nitroaniline,2-	μg/kg							
Nitroaniline,3-	μg/kg							
Nitroaniline,4-	μg/kg							
Nitrobenzene	μg/kg							
Nitrophenol,2-	μg/kg							
Nitrophenol,4-	μg/kg							
Pentachlorophenol	μg/kg			T				
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# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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						<del> </del>	
					<u> </u>	<b></b>	
	06/09/1997						
Sample Time	09:30	09:25	09:20	09:22	09:27		
Sample Depth							
Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
Lab. Number	A7F100149034	A7F100149032	A7F100149030	A7F100149031	A7F100149033		
Units							
µg/kg							
μg/kg							
μg/kg							
μg/kg							
μg/kg							
μg/kg							
μg/kg							
μ <b>g/k</b> g	<130 U	<120 U	<110 U	<110 U	<110 U		
μ <b>g/k</b> g	<65 U	<58 U	<54 U	<54 U	<57 U		
μg/kg	<65 U	<58 U	<54 U	<54 U	<57 U		
μg/kg	<130 U	<120 U	<110 U	<110 U	<110 U		
μg/kg	<130 U	<120 U	<110 U	<110 U	<110 U		
	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
						1	
	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U	<u> </u>	
				<del></del>	<del></del>	<del> </del>	<del>                                     </del>
						† · · · · · · · · · · · · · · · · · · ·	<del>                                     </del>
	<6.5 U	<5.8 U		<5.4 U		<del>                                     </del>	<del>                                     </del>
				<del></del>	<del></del>		<del>                                     </del>
	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del> </del>	
				<del> </del>			<del>                                     </del>
	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		<u> </u>
				<del></del>		<u> </u>	<del>                                     </del>
	<del>                                     </del>		1	1	<del> </del>	<del> </del>	
					<del> </del>		
	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U	<del> </del>	
	<del> </del>		1	1 2.40		<del> </del>	<del></del>
	Laboratory Lab. Number Units  µg/kg   Sample ID 1635143  Sample Date 06/09/1997  Sample Time 09:30  Sample Depth  Laboratory QUAN  Lab. Number A7F100149034  Units	Sample ID 1635143 1635141  Sample Date 06/09/1997 06/09/1997  Sample Time 09:30 09:25  Sample Depth	Sample ID   1635143   1635141   1635139     Sample Date   06/09/1997   06/09/1997   06/09/1997     Sample Time   09:30   09:25   09:20     Sample Depth	Sample ID   1635143   1635141   1635139   1635140	Sample ID   1635143   1635141   1635139   1635140   1635142     Sample Date   06/09/1997   06/09/1997   06/09/1997   06/09/1997   06/09/1997   06/09/1997   06/09/1997   06/09/1997   06/09/1997   06/09/1997   06/09/1997     Sample Dopth	Sample ID 1635143 1635141 1635139 1635140 1635142  Sample Date 06/09/1997 09/22 09/2	

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 65 of 66
	Location ID	NK-TP-14B	NK-TP-14E	NK-TP-14N	NK-TP-14S	NK-TP-14W		
	Sample ID	1635143	1635141	1635139	1635140	1635142		
	Sample Date	06/09/1997	06/09/1997	06/09/1997	06/09/1997	06/09/1997		
	Sample Time	09:30	09:25	09:20	09:22	09:27		
	Sample Depth							<u> </u>
	Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
	Lab. Number	A7F100149034	A7F100149032	A7F100149030	A7F100149031	A7F100149033		
Constituent	Units							
Dichlorobenzene,1,3-	μg/kg							
Dichlorobenzene, 1,4-	μ <b>g/kg</b>							
Dichlorobromomethane	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 Ü	<5.7 U		
Dichlorodifluoromethane	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Dichlorosthane,1,1-	μ <b>g/kg</b>	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Dichlorosthane,1,2-	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Dichloroethylene,1,1-	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Dichloroethylene,1,2-	μg/kg							
Dichloroethylene, 1,2-cis-	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Dichloroethylene, 1,2-trans-	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Dichloropropane, 1,2-	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Dichloropropylene, 1,3-	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Dichloropropylene, 1, 3-cis-	μg/kg							
Dichloropropylene, 1, 3-trans-	μ <b>g/kg</b>							
Dioxane,1,4-	μg/kg	<200 U	<170 U	<160 U	<160 U	<170 U		
Ethyl Methacrylate	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Ethylbenzene	μ <b>g/kg</b>	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Ethylbenzene (screening)	μg/kg							
Ethylene Dibromide	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Hexanone,2-	μg/kg	<65 U	<58 U	<54 U	<54 U	<57 U		
Iodomethane	μ <b>g/kg</b>	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Isobutyl Alcohol	μ <b>g/kg</b>	<65 U	<58 U	<54 U	<54 U	<57 U		
Methacrylonitrile	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Methyl Bromide	μ <b>g/kg</b>	<13 U	<12 U	<11 U	<11 U	<11 U		
Methyl Chloride	μg/kg	<13 U	<12 U	<11 U	<11 U	<11 U		
Methyl Ethyl Ketone	μg/kg	<130 U	<120 U	<110 U	<110 U	<110 U		
Methyl Methacrylate	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Methyl-2-pentanone,4-	μg/kg	<13 U	<12 U	<11 U	<11 U	<11 U		
		1	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del></del>	<del> </del>

# Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-314 Septic System Area

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								Page 66 of 66
	Location ID	NK-TP-14B	NK-TP-14E	NK-TP-14N	NK-TP-14S	NK-TP-14W		
	Sample ID	1635143	1635141	1635139	1635140	1635142		
	Sample Date	06/09/1997	06/09/1997	06/09/1997	06/09/1997	06/09/1997		
	Sample Time	09:30	09:25	09:20	09:22	09:27		
	Sample Depth							
	Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
	Lab. Number	A7F100149034	A7F100149032	A7F100149030	A7F100149031	A7F100149033		
Constituent	Units							
Methyl-tert-butyl Ether	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Methylene Chloride	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Propionitrile	μg/kg	<26 U	<23 U	<22 U	<21 U	<23 U		
Styrene	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Tetrachloroethane, 1, 1, 1, 2-	μ <b>g/kg</b>	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Tetrachloroethane, 1, 1, 2, 2-	µg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Tetrachloroethylene	μ <b>g/kg</b>	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Tetrachloroethylene (screening)	μg/kg							
Toluene	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Toluene (screening)	μg/kg							
Trichloroethane, 1, 1, 1-	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Trichloroethane, 1, 1, 1- (screening)	μg/kg							
Trichloroethane, 1, 1, 2-	μ <b>g/k</b> g	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Trichloroethylene	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Trichloroethylene (screening)	μg/kg							
Trichloromonofluoromethane	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Trichloropropane, 1, 2, 3-	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Vinyl Acetate	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Vinyl Chloride	μg/kg	<13 U	<12 U	<11 U	<11 U	<11 U		
Xylene,o- (screening)	μg/kg							
Xylenes (Total)	μg/kg	<6.5 U	<5.8 U	<5.4 U	<5.4 U	<5.7 U		
Xylenes (Total) (screening)	μg/kg							
Xylenes,m- & p- (screening)	μg/kg							
								1
							1	1
***************************************		1			<del> </del>	<del>                                     </del>	1	†
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### Table 4 DRAFT SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS) - GROUNDWATER P&W East Hartford: X-314 Septic System Area

Page 1 of 1

				 		Page I of I
	Location ID	NK-SB-46	L			
	Sample ID	1017205				
	Sample Date	08/13/1996				
	Sample Time	11:50				
	Sample Depth	9.5' - 10.5'				
	Laboratory	AEL				
	Lab. Number	AEL96008990				
Constituent	Units					
Date Metals Analysed	-	08/14/1996				
Barium		0.028				
Nickel	mg/L	0.079				
Zinc	mg/L	0.026				
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				 	T	

Notes: 1. Only Detects Shown

2. Printed on 09/24/98

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#### Table 5 SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER P&W East Hartford: X-314 Septic System Area

					 	Page 1 of 3
	Location ID	NK-SB-46	NK-SB-46			
	Sample ID	1017205	1017205			
	Sample Date	08/13/1996	08/13/1996			
	Sample Time	11:50	11:50			
	Sample Depth	9.5' - 10.5'	9.5' - 10.5'			
	Laboratory	AEL	LEA			
	Lab. Number	AEL96008990	96-3995-125			
Constituent	Units					
Date Metals Analysed	•	08/14/1996				
Date Organics Analysed	•	08/26/1996	08/16/1996			
Date Physical Analysed	•	08/14/1996				
Arsenic	mg/L	<0.004				
Barium	mg/L	0.028				
Cadmium	mg/L	<0.0010				
Chromium	mg/L	<0.010				
Lead	mg/L	<0.0050				
Mercury	mg/L	<0.0004				
Nickel	mg/L	0.079				
Selenium	mg/L	<0.010				
Silver	mg/L	<0.010				
Zinc	mg/L	0.026				
Total Petroleum Hydrocarbons	mg/L	<0.5				
Acetone	μg/L	<20				
Acrolein	μg/L	<10				
Acrylonitrile	μg/L	<0.66 **				
Benzene	μ <b>g</b> /L	<1.0				
Benzene (screening)	μg/l		<1			
Bromobenzene	μg/L	<4.0				
Bromoform	μg/L	<4.0				
Carbon Disulfide	μg/L	<4.0				
Carbon Tetrachloride	μ <b>g/</b> L	<4.0				
Chlorobenzene	μg/L	<4.0				
Chlorodibromomethane	μ <b>g/</b> L	<0.31 **				
Chloroethane	μg/L	<4.0				
Chloroethyl Vinyl Ether,2-	μg/L	<4.0				
Chloroform	μg/L	<4.0				
lotes:   Printed on 09/24/98					<u> </u>	



### Table 5 SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER P&W East Hartford: X-314 Septic System Area

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Page 2 of 3

				 		Page 2 of 3
	Location ID	NK-SB-46	NK-SB-46			
	Sample ID	1017205	1017205			
	Sample Date	08/13/1996	08/13/1996			
	Sample Time	11:50	11:50			
	Sample Depth	9.5' - 10.5'	9.5' - 10.5'			
	Laboratory	AEL	LEA			
	Lab. Number	AEL96008990	96-3995-125			
Constituent	Units					
Chlorotoluene,o-	μg/L	<4.0				
Chlorotoluene,p-	μ <b>g/</b> L	<4.0				
Dibromomethane	μ <b>g/</b> L	<4.0				
Dichlorobenzene, 1,2-	μ <b>g/</b> L	<4.0				
Dichlorobenzene, 1,3-	μg/L	<4.0				
Dichlorobenzene, 1,4-	μg/L	<4.0				
Dichlorobromomethane	μg/L	<4.0				
Dichlorodifluoromethane	μ <b>g/</b> L	<4.0				
Dichlorosthane,1,1-	μg/L	<4.0				
Dichloroethane,1,2-	μg/L	<1.0				
Dichlorosthylene, 1, 1-	μ <b>g/</b> L	<1.4				
Dichloroethylene, 1,2-cis-	μ <b>g/</b> L	<4.0				
Dichloroethylene, 1,2-trans-	μg/L	<4.0				
Dichloropropane, 1,2-	μg/L	<4.0				
Dichloropropylene, 1,3-cis-	μg/L	<0.22 **				
Dichloropropylene, 1, 3-trans-	μg/L	<0.82				
Ethylbenzene	μg/L	<4.0				
Ethylbenzene (screening)	μ <b>g/</b> l		<3			
Hexanone,2-	μg/L	<10				
Methyl Bromide	μg/L	<4.0				
Methyl Chloride	μ <b>g/</b> L	<4.0				
Methyl Ethyl Ketone	μ <b>g/L</b>	<10				
Methyl-2-pentanone,4-	μg/L	<10				
Methyl-tert-butyl Ether	μ <b>g</b> /L	<4.0				
Methylene Chloride	μg/L	<4.0				
Styrene	μ <b>g</b> /L	<4.0				
Tetrachloroethane, 1, 1, 1, 2-	μ <b>g</b> /L	<1.0				
Tetrachlorosthane, 1, 1, 2, 2-	μ <b>g/</b> L	<0.30 **				
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# Table 5 SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER P&W East Hartford: X-314 Septic System Area

								Page 3 of
	Location ID	NK-SB-46	NK-SB-46					
	Sample ID	1017205	1017205					
	Sample Date	08/13/1996	08/13/1996					
	Sample Time	11:50	11:50					
	Sample Depth	9,5' - 10.5'	9.5' - 10.5'					
	Laboratory	AEL	LEA					
	Lab. Number	AEL96008990	96-3995-125					
Constituent	Units							
Tetrachloroethylene	μg/L	<4.0						
Tetrachloroethylene (screening)	μg/l	Ī	<4					
Tohuene	μg/L	<4.0						
Tohiene (screening)	μg/l		<2					
Trichloroethane, 1, 1, 1-	μg/L	<4.0						
Trichloroethane, 1, 1, 1 - (screening)	μg/l		<36					
Trichloroethane, 1, 1, 2-	μg/L	<4.0						
Trichloroethylene	μ <b>g</b> /L	<4.0						
Trichloroethylene (screening)	μ <b>g/</b> Ι		<4					
Trichloromonofluoromethane	μ <b>g</b> /L	<4.0						
Trichloropropane, 1, 2, 3-	μ <b>g</b> /L	<4.0						
Vinyl Acetate	μg/L	<4.0						
Vinyl Chloride	μg/L	<2.0						
Xylenes (Total)	μg/L	<4.0						
		1						
					<u> </u>			
		<u> </u>		<b> </b>				
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		†	<del> </del>	<del> </del>			<del> </del>	<del> </del>
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#### Table 5 SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER P&W East Hartford: X-314 Septic System Area

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				 			Page 1 of 3
	Location ID	NK-SB-46	NK-SB-46				
	Sample ID	1017205	1017205				
	Sample Date	08/13/1996	08/13/1996				
	Sample Time	11:50	11:50				
	Sample Depth	9.5' - 10.5'	9.5' - 10.5'				
	Laboratory	AEL	LEA				
	Lab. Number	AEL96008990	96-3995-125				
Constituent	Units						
Date Metals Analysed	•	08/14/1996					
Date Organics Analysed	-	08/26/1996	08/16/1996				
Date Physical Analysed	-	<b>08/14</b> /1996					
Arsenic	mg/L	<0.004					
Barium	mg/L	0.028					
Cadmium	mg/L	<0.0010					
Chromium	mg/L	<0.010					
Load	mg/L	<0.0050					
Mercury	mg/L	<0.0004					
Nickel	mg/L	0.079					
Selenium	mg/L	<0.010					
Silver	mg/L	<0.010					
Zinc	mg/L	0.026					
Total Petroleum Hydrocarbons	mg/L	<0.5					
Acetone	μ <b>g/</b> L	<20					
Acrolein	μ <b>g/</b> L	<10					
Acrylonitrile	μ <b>g/L</b>	<0.66 **					
Benzens	μ <b>g</b> /L	<1.0					
Benzene (screening)	μg/l		<1				
Bromobenzene	μ <b>g</b> /L	<4.0				1	
Bromoform	μ <b>g/</b> L	<4.0					
Carbon Disulfide	μg/L	<4.0					
Carbon Tetrachloride	μ <b>g/</b> L	<4.0					
Chlorobenzene	μg/L	<4.0					
Chlorodibromomethane	μ <b>g</b> /L	<0.31 **			<u></u>		
Chloroethane	μ <b>g</b> /L	<4.0					
Chloroethyl Vinyl Ether,2-	μ <b>g</b> /L	<4.0					
Chloroform	μ <b>g/</b> L	<4.0					

# Table 5 SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER P&W East Hartford: X-314 Septic System Area

Page 2 of 3

				 			Page 2 of 3
	Location ID	NK-SB-46	NK-SB-46				
	Sample ID	1017205	1017205				
	Sample Date	08/13/1996	08/13/1996				
	Sample Time	11:50	11:50				
	Sample Depth	9.5' - 10.5'	9.5' - 10.5'				
	Laboratory	AEL	LEA				
	Lab. Number	AEL96008990	96-3995-125			ļ <u></u>	
Constituent	Units						
Chiorotoluene,o-	μg/L	<4.0					
Chlorotoluene,p-	μg/L	<4.0			<u> </u>		
Dibromomethane	μg/L	<4.0					
Dichlorobenzene, 1, 2-	μg/L	<4.0					
Dichlorobenzene, 1,3-	μg/L	<4.0				<u></u>	
Dichlorobenzene, 1,4-	μg/L	<4.0					
Dichlorobromomethane	μg/L	<4.0					
Dichlorodifluoromethane	μg/L	<4.0					
Dichloroethane, 1,1-	μg/L	<4.0					
Dichloroethane, 1,2-	μg/L	<1.0					
Dichloroethylene, 1, 1-	μg/L	<1.4					
Dichloroethylene, 1,2-cis-	μg/L	<4.0					
Dichloroethylene, 1,2-trans-	μg/L	<4.0					
Dichloropropane, 1,2-	μg/L	<4.0					
Dichloropropylene,1,3-cis-	μg/L	<0.22 **					
Dichloropropylene, 1, 3-trans-	μ <b>g</b> /L	<0.82					
Ethylbenzene	μg/L	<4.0					
Ethylbenzene (screening)	μg/l		⋖				
Hexanone,2-	μg/L	<10					
Methyl Bromide	μg/L	<4.0					
Methyl Chloride	μg/L	<4.0					
Methyl Ethyl Ketone	μg/L	<10					
Methyl-2-pentanone,4-	μg/L	<10					
Methyl-tert-butyl Ether	μ <b>g/</b> L	<4.0					
Methylene Chloride	μg/L	<4.0					
Styrene	μ <b>g</b> /L	<4.0					
Tetrachloroethane, 1, 1, 1, 2-	μg/L	<1.0					
Tetrachloroethane, 1, 1, 2, 2-	μg/L	<0.30 **					
V		L				L	

### Table 6 DRAFT SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS) - SLUDGE P&W East Hartford: X-314 Septic System Area

Page 1 of 1

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	Location ID	NK-SL-04						
	Sample ID	1006167						
	Sample Date	08/02/1995						
	Sample Time	13:17						
	Laboratory	AEL						
	Lab, Number	AEL95008561						
Constituent	Units							
Date Metals Analysed	-	08/11/1995						
Date Organics Analysed		08/10/1995						
Barium	mg/kg	7.6						
Chloroethane	μg/kg	270				1		1
Xylenes (Total)	μg/kg	23						
						1		
		,						
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Notes: 1. Only Detects Shown

2. Printed on 09/25/98

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### Table 7 SUMMARY OF ANALYTICAL RESULTS - SLUDGE P&W East Hartford: X-314 Septic System Area

Page 1 of 3

			 	 	 Page 1 of 3
	Location ID	NK-SL-04			
	Sample ID	1006167			
	Sample Date	08/02/1995			
	Sample Time	13:17			
	Laboratory	AEL			
	Lab. Number	AEL95008561			
Constituent	Units		 		
Date Metals Analysed		08/11/1995			
Date Organics Analysed		08/10/1995	 		
Date PCBs Analysed	•	08/21/1995			
Arsenic	mg/kg	<1.17			
Barium	mg/kg	7.6			
Cadmium	mg/kg	<3.51			
Chromium	mg/kg	<5.84			
Lead	mg/kg	<23.4			
Mercury	mg/kg	<0.234			
Selenium	mg/kg	<1.17			
Silver	mg/kg	<5.84	 		
PCB 1016	μg/kg	<240			
PCB 1221	μg/kg	<240			
PCB 1232	μg/kg	<240			
PCB 1242	μg/kg	<240			
PCB 1248	μg/kg	<240			
PCB 1254	μg/kg	<240			
PCB 1260	μg/kg	<240			
Acetone	μg/kg	<110			
Acrolein	μg/kg	<55			
Acrylonitrile	μg/kg	<55			
Benzene	μg/kg	<15			
Bromobenzene	μ <b>g/kg</b>	<22			
Bromoform	μg/kg	<22			
Carbon Disulfide	μg/kg	<22 N1			
Carbon Tetrachloride	μg/kg	<22			
Chlorobenzene	μg/kg	<22			
Chlorodibromomethane	μg/kg	<22			
Chloroethane	μg/kg	270		 	 
V-4 1 D-21 00 M/00					

### Table 7 SUMMARY OF ANALYTICAL RESULTS - SLUDGE P&W East Hartford: X-314 Septic System Area

Page 2 of 3

				 		 Page 2 of 3
	Location ID	NK-SL-04				
	Sample ID	1006167				
	Sample Date	08/02/1995				
	Sample Time	13:17				
_	Laboratory	AEL				
	Lab. Number	AEL95008561				
Constituent	Units					
Chloroethyl Vinyl Ether,2-	μg/kg	<22				
Chloroform	μ <b>g/kg</b>	<22				
Chlorotohiene,o-	μ <b>g/kg</b>	<22				
Chlorotoluene,p-	μg/ <b>kg</b>	<22				
Dibromomethane	μ <b>g/kg</b>	<22				
Dichlorobenzene, 1,2-	μg/kg	<22				 
Dichlorobenzene, 1,3-	μg/kg	<22				
Dichlorobenzene, 1,4-	μg/kg	<22			L	
Dichlorobromomethane	μ <b>g/kg</b>	<22				
Dichlorodifluoromethane	μg/kg	<22				
Dichlorosthane, 1, 1-	μg/ <b>kg</b>	<22				
Dichlorosthane, 1,2-	μg/kg	<22				
Dichloroethylene,1,1-	μg/kg	<22				
Dichloroethylene, 1,2-cis-	μg/kg	<22				
Dichloroethylene, 1,2-trans-	μg/kg	<22				
Dichloropropane, 1,2-	μg/kg	<22				
Dichloropropylene, 1, 3-cis-	μg/kg	<22				
Dichloropropylene, 1,3-trans-	μg/kg	<22				
Ethylbenzene	μ <b>g/kg</b>	<15 N1				
Hexanone,2-	μ <b>g/kg</b>	<55				
Methyi Bromide	μ <b>g/kg</b>	<22				
Methyl Chloride	μg/kg	<22				
Methyl Ethyl Ketone	μ <b>g/kg</b>	<55				
Methyi-2-pentanone,4-	μg/kg	<55				
Methyl-tert-butyl Ether	μ <b>g/kg</b>	<22 N1				
Methylene Chloride	μg/kg	<22				
Styrene	μg/kg	<22				
Tetrachloroethane, 1, 1, 1, 2-	μg/kg	<22				
Tetrachloroethane, 1, 1, 2, 2-	μg/kg	<22				
			T		T	

# Table 7 SUMMARY OF ANALYTICAL RESULTS - SLUDGE P&W East Hartford: X-314 Septic System Area

Page 3 of 3

						Page 3 of 3
	Location ID	NK-SL-04				
	Sample ID	1006167				
	Sample Date	08/02/1995				
	Sample Time	13:17				
	Laboratory	AEL				
	Lab. Number	AEL95008561				
Constituent	Units					
Tetrachloroethylene	μg/kg	<22				
Toluene	μg/kg	<15 N1				
Trichloroethane,1,1,1-	μg/kg	<22				
Trichloroethane, 1, 1, 2-	μg/kg	<22				
Trichloroethylene	μg/kg	<22				
Trichloromonofluoromethane	μg/kg	<22				
Trichloropropane, 1,2,3-	μ <b>g/kg</b>	<22				
Vinyl Acetate	μg/kg	<22				
Vinyl Chloride	μg/kg	<22				
Xylenes (Total)	μg/kg	23				
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		1			1	

DRAWINGS

Facility Name: PRATT & WHITNEY - MAIN STREET  Facility ID#: CTD990672081  Phase Classification: R-5  Purpose of Target Sheet:  [X] Oversized (in Site File) [ ] Oversized (in Map Drawe  [ ] Page(s) Missing (Please Specify Below)  [ ] Privileged [ ] Other (Provide Purpose Below)  Description of Oversized Material, if applicable:  DRAWING 1: SOIL INVESTIGATIONS, X-314 AREA SEPTIC SYSTEM, LOCATION & CONSTITUENTS DETECTED MAP  [X] Map [ ] Photograph [ ] Other (Specify Below)	RDMS Document ID # 2665	<u> </u>
Phase Classification: R-5  Purpose of Target Sheet:  [X] Oversized (in Site File) [ ] Oversized (in Map Drawe  [ ] Page(s) Missing (Please Specify Below)  [ ] Privileged [ ] Other (Provide Purpose Below)  Description of Oversized Material, if applicable:  DRAWING 1: SOIL INVESTIGATIONS, X-314 AREA SEPTIC SYSTEM, LOCATION & CONSTITUENTS  DETECTED MAP	Facility Name: <u>PRATT &amp; W</u>	VHITNEY - MAIN STREET
Purpose of Target Sheet:  [X] Oversized (in Site File) [ ] Oversized (in Map Drawe)  [ ] Page(s) Missing (Please Specify Below)  [ ] Privileged [ ] Other (Provide Purpose Below)  Description of Oversized Material, if applicable:  DRAWING 1: SOIL INVESTIGATIONS, X-314 AREA SEPTIC SYSTEM, LOCATION & CONSTITUENTS  DETECTED MAP	Facility ID#: <u>CTD9906720</u>	081
[ X ] Oversized (in Site File) [ ] Oversized (in Map Drawe [ ] Page(s) Missing (Please Specify Below) [ ] Privileged [ ] Other (Provide Purpose Below)  Description of Oversized Material, if applicable:  DRAWING 1: SOIL INVESTIGATIONS, X-314 AREA SEPTIC SYSTEM, LOCATION & CONSTITUENTS DETECTED MAP	Phase Classification: R-5	<u> </u>
[ ] Page(s) Missing (Please Specify Below)  [ ] Privileged [ ] Other (Provide Purpose Below)  Description of Oversized Material, if applicable:  DRAWING 1: SOIL INVESTIGATIONS, X-314 AREA SEPTIC SYSTEM, LOCATION & CONSTITUENTS DETECTED MAP	Purpose of Target Sheet:	
[ ] Privileged [ ] Other (Provide Purpose Below)  Description of Oversized Material, if applicable:  DRAWING 1: SOIL INVESTIGATIONS, X-314 AREA SEPTIC SYSTEM, LOCATION & CONSTITUENTS DETECTED MAP	[X] Oversized (in Site File)	Oversized (in Map Drawer)
Purpose Below)  Description of Oversized Material, if applicable:  DRAWING 1: SOIL INVESTIGATIONS, X-314 AREA SEPTIC SYSTEM, LOCATION & CONSTITUENTS DETECTED MAP	[ ] Page(s) Missing (Pleas	se Specify Below)
DRAWING 1: SOIL INVESTIGATIONS, X-314 AREA SEPTIC SYSTEM, LOCATION & CONSTITUENTS DETECTED MAP	[ ] Privileged	
SEPTIC SYSTEM, LOCATION & CONSTITUENTS DETECTED MAP		aterial if annlicable:
DETECTED MAP	Description of Oversized Ma	actiai, it applicable.
	DRAWING 1: SOIL INVES	STIGATIONS, X-314 AREA
[X ] Man [ ] Photograph [ ] Other (Specify Relow)	-	
[12] Map [ ] I Hoodgraph [ ] Center (Speemy Delow)	DRAWING 1: SOIL INVES	STIGATIONS, X-314 AREA
	DRAWING 1: SOIL INVES SEPTIC SYSTEM, LOCAT DETECTED MAP	STIGATIONS, X-314 AREA FION & CONSTITUENTS

<sup>\*</sup> Please Contact the EPA New England RCRA Records Center to View This Document \*

Facility Name: <u>PRATT &amp; W</u>	HITNEY - MAIN STREET
Facility ID#: <u>CTD9906720</u>	81
Phase Classification: R-5	
Purpose of Target Sheet:	
[X] Oversized (in Site File)	[ ] Oversized (in Map Drawer)
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[ ] Privileged	Other (Provide Purpose Below)
	aterial, if applicable:  VATER INVESTIGATIONS, X-314  LOCATION & CONSTITUENTS
[X] Map [] Photogr	raph [ ] Other (Specify Below)

<sup>\*</sup> Please Contact the EPA New England RCRA Records Center to View This Document \*

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### TECHNICAL MEMORANDUM 8 GEOPHYSICAL SURVEYING

# SUMMARY SITE INVESTIGATION AND REMEDIATION REPORT AIRPORT/KLONDIKE AREA AT PRATT & WHITNEY EAST HARTFORD, CONNECTICUT EPA ID No. CTD990672081

#### Prepared for:

PRATT & WHITNEY
400 Main Street
East Hartford, Connecticut 06108

Prepared by:

LOUREIRO ENGINEERING ASSOCIATES 100 Northwest Drive Plainville, Connecticut 06062

LEA Comm. No. 68V8124

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#### Acronyms

DC	Direct Current
DEP	State of Connecticut Department of Environmental Protection
DPH	State of Connecticut Department of Public Health
EM	Electromagnetic Terrain Conductivity
F&O	Fuss & O'Neill, Inc.
GPR	Ground Penetrating Radar
H&A	Haley & Aldrich, Inc.
LEA	Loureiro Engineering Associates, Inc.
M&E	Metcalf & Eddy, Inc.
MHz	Megahertz
MSL	Mean Sea Level
P&W	Pratt & Whitney
PPE	Personal Protective Equipment
QA/QC	Quality Assurance/Quality Control
SOP	Standard Operating Procedure
TM	Technical Memoranda
VPSA	Virgin Product Storage Area



#### 1. INTRODUCTION

#### 1.1 Purpose and Objective

This Technical Memorandum (TM) presents the methodology and results of the geophysical surveying conducted in the Airport/Klondike Area (Site) of the Pratt & Whitney (P&W) facility located at 400 Main Street (Main Street facility) in the Town of East Hartford, Connecticut. Geophysical surveying using various techniques was conducted to:

- define the upper surface of the glaciolacustrine sediments in the South Klondike Area;
- to locate and determine the boundaries of former septic systems associated with the former Army barracks and training area located in the North Airport Area;
- to locate and determine the boundaries of former septic systems associated with former test stands in the Klondike Area;
- to determine the existence of the magnetic anomalies in the Airport/Klondike Area; and,
- to determine the depth to bedrock in the Airport Area.

#### 1.2 Background

The Airport/Klondike Area is located on the eastern portion of the P&W Main Street facility on the east side of the main plant, north of Brewer Street and south of Silver Lane. The Airport/Klondike Area consists of four study areas that include the North and South Airport Areas and the North and South Klondike Areas. Previous investigations at the Site performed from 1990 through 1993 resulted in the installation and sampling of soil borings, groundwater monitoring wells and temporary wellpoints, surface water and sediment throughout the Airport/Klondike Area. Additional investigations have been conducted to define geologic conditions and anthropogenic structures at the Site which could impact contaminant transport and assist in conducting investigation activities.

#### 1.3 Scope

This TM covers the techniques and methodologies of the geophysical surveying conducted in the Airport/Klondike Area. The methods and techniques discussed are those used by geophysical contractors and consultants during the period from approximately 1990 through 1996.



#### 1.4 General Geologic and Hydrogeologic Conditions

The geologic and hydrogeologic characteristics of the Site are discussed in detail in the main body of this report. In general, the surficial materials, in which the majority of the monitoring wells are screened, consist of medium to fine grained sands with trace levels of fine gravels and coarse sands. These sediments are generally post-glacial, fluvial deposits associated with the Connecticut River, although in many places the upper portion of these sediments has been anthropogenically disturbed during on-site construction activities. Beneath the fluvial sediments are glaciolacustrine sediments, primarily laminated silts and clays, associated with glacial Lake Hitchcock. The basal sediment layer over most of the area is glacial till and stratified drift. Bedrock in the general East Hartford area consists of Triassic Age, interbedded arkoses and basalts. Bedrock in the area has a general slight dip eastward cut by widespread steep faults.

The regional drainage basin is the Upper Connecticut River Basin. Regional flow in the unconsolidated materials of this part of the basin is to the west, towards the Connecticut River. Local groundwater flow is also controlled to some extent by local drainage sub-basins and topography. The upper portion of the unconsolidated sediments serves as the primary aquifer in the area. Groundwater flow in the bedrock is primarily within fractures and fault planes, and to a lesser extent within the rock matrix. The local bedrock aquifer would be an adequate as a residential water supply source, but groundwater yields are typically too low to be of commercial or industrial use.

#### 1.5 Geophysical Surveying Techniques

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Various geophysical surveying techniques have been applied at the Site to provide different information regarding the nature of the surficial materials at the Site. These methods include seismic refraction surveying, electromagnetic surveying, ground penetrating radar surveying, and magnetometry.

Seismic refraction surveying consists of measuring the time it takes sound waves to travel through materials and relating that time to the nature of the materials. Seismic refraction surveying uses a system of vibration-sensitive receivers to detect and record sonic energy refracted from subsurface horizons. Seismic refraction surveying has been used in the Airport Area to define the depth to bedrock and the general nature of the unconsolidated materials.

Electromagnetic surveying consists of measuring the response of the geologic materials to induced electromagnetic fields. Electromagnetic surveying uses a coupled transmitter and receiver to induce and measure electromagnetic eddy currents in buried conductive objects.



Electromagnetic surveying has typically been used to locate areas where buried metallic objects may be located.

Ground penetrating radar (GPR) surveying consists of recording and converting radar signals reflected from subsurface materials. The GPR system transmits and receives pulsed electromagnetic energy and converts the received signals into indications of the change of the dielectric constants between subsurface materials or buried objects. GPR surveying has typically been used to located buried objects, such as pipes or tanks, that have significantly different dielectric properties from the surrounding soil.

Magnetometry is the measurement of variations in the normal magnetic field caused by the presence of buried magnetically susceptible objects. The magnetometry system consists of a magnetic field detector mounted on a staff to provide a constant height above the ground surface and connected to a recording device. Magnetometry is typically used to locate buried metallic objects.

#### 2. METHODOLOGY

This section presents the general procedures and methodologies used to conduct and analyze the data from the various geophysical surveying techniques used in the Airport/Klondike Area. These methods were used by LEA, and also by previous consultants and contractors who performed geophysical surveying at the Site.

#### 2.1 Seismic Refraction Surveying

Seismic refraction surveying was conducted on December 6 through 8, 1989, in the Airport Area by Weston Geophysical, Corp., as subcontractors to Westinghouse Environmental and Geotechnical Services, Inc.

Seismic refraction surveying consists of measuring the time-of-travel associated with compressional, or "P," seismic waves. The time-of-travel of the seismic waves can be related to the nature, composition, degree of induration, and degree of saturation of the material the waves are traveling through.

The seismic waves are generated by a "shot," or high-velocity acoustic wave generation event, at the "shot point," or the location of the shot. The shot can be generated by various sources such as air guns, hand-held drop weights, or small explosive charges. The waves are detected by vibration sensitive devices known as geophones. Geophones convert the seismic vibrations, or waves, into electrical signals and transmit those signals to a recording device through dedicated cables.

Interpretations of the geology are made from the analysis of the travel time curves which show the time required for each compressional seismic wave to travel from the shot point to the geophones. In general, velocity ranges of approximately 500 to 6,000 feet per second are indicative of unconsolidated sandy or gravelly materials. The lower velocity range is indicative of unsaturated materials with the seismic velocity range increasing with increasing saturation and density. Seismic velocity ranges of approximately 500 to 8,000 feet per second are indicative of clay units. Seismic velocity ranges of approximately 5,000 to 16,500 feet per second are indicative of consolidated rocks such as sandstone. Bedrock can have seismic velocities which span the entire range from that of unconsolidated sediments upwards, depending upon the type of bedrock and the degree of weathering and/or fracturing.



#### 2.2 Electromagnetic Terrain Conductivity Surveying

Electromagnetic terrain conductivity (EM) surveying was performed on December 4 through 7, 1989, in the Airport/Klondike Area by Westinghouse.

EM uses a transmitter, or coil, to generate a magnetic field. The magnetic field induces eddy currents within the earth. The eddy currents produce secondary electromagnetic fields which are measured by a receiver coil. The strength of the secondary electromagnetic fields is related to the conductivity of the subsurface materials. The measured conductivity is the weighted cumulative sum of the conductivities from the surface to the effective depth of the instrument. The effective depth of the instrument is a function of the separation of the transmitting and receiving coils.

EM is useful for mapping of shallow conductive bodies, including conductive contaminant plumes, for the detection of buried bulk wastes, and for the detection of buried metal containers, including steel tanks and drums. However, EM is susceptible to interference from powerlines and surficial metals, and lacks vertical resolution compared to direct current (DC) electrical resistivity methods.

#### 2.3 Ground Penetrating Radar Surveying

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Ground penetrating radar surveying (GPR) was used on May 24 through 26, 1993 in the South Klondike Area by Fuss & O'Neill, Inc. (F&O), and on August 6, 1996 in the former Army Barracks Area, on August 12, 1996 in the X-312/X-314 Test Stand Area, on September 6, 1996 in the former Explosives Storage Area and Linde Gas/Chemical Storage Building Area, and on October 15, 1996 in the former Silver Lane Pickle Company Area by Kick Geoexploration.

GPR is a geophysical technique based on the transmission and reflection of short, rapid bursts of high frequency radio waves. In practice, a GPR system consists of an integral transmitter and receiver which are dragged on the ground surface along a transect. The transmitting antenna emits electromagnetic radiation at a frequency between 80 Megahertz (MHz) and 1,000 MHz, depending on the receiving antenna. The receiver records the reflected GPR signal strength. These data can later be transferred to plotting devices for graphic output.

In the subsurface, a portion of the electromagnetic energy is reflected back toward the transmitter when an interface between two materials with differing electrical properties is intercepted. The effectiveness of a buried object as a reflector is a function of the contrast between the electrical properties of the buried object and the sediments. The effectiveness of GPR to identify buried objects is also dependent on the electrical properties of the sediments. In general, conductive



media such as silt and clay are effective GPR reflectors and thus limit the effective depth of the GPR signal. Less conductive sediments, such as sand and gravel, are less effective GPR reflectors and the effective depth of GPR signal penetration is much greater.

Interpretation of GPR is typically performed by visual inspection of the form and distribution of the reflected GPR signals. These data are translated into estimates of locations and interpretations of buried objects along the line of the GPR transect. When GPR is used to establish the geometry of the upper surface of a reflecting horizon, a combination of GPR and ground truthing is used to establish points on the reflecting horizon from which interpolations can be based. Ground truthing is the use of established depths, typically derived from borehole data, in conjunction with the GPR results.

#### 2.4 Magnetometry

Magnetometer surveys were performed by Kick Geoexploration on September 6, 1996, in the former Linde Gas/Chemical Storage Building Area, and the Tie-Down Area, and on October 15, 1996 in the former Silver Lane Pickle Company area.

Magnetometry surveying uses a sensitive magnetometer to measure and record anomalies and variations in the prevailing terrestrial magnetic field. The surveying technique uses a detector attached to a staff so that the detector is maintained a constant distance above the earth during the surveying. The detector is attached to a recording device.

In practice, a local base station is chosen where there is minimal variation in the magnetic field intensity, and all measurements are reported relative to the magnetic intensity detected at the base station. During the surveying, magnetic measurements are made and recorded at locations along a predefined grid. These magnetic intensities are then plotted and analyzed to determine the presence of anomalies that may represent buried metallic objects.

#### 2.5 Quality Assurance/Quality Control Procedures

Quality assurance/quality control (QA/QC) procedures used in performing the geophysical surveying varied depending upon the specific geophysical procedure used. For EM, the typical procedure was to perform functional tests of the instrumentation at the beginning of each work day, including checking the batteries, instrumental zero setting, instrumental sensitivity, compensation, and phase controls. In addition, background conductivity measurements were made at the beginning of each day in an area of the North Klondike identified as undisturbed.

The QA/QC procedures for GPR, magnetometry, and seismic refraction activities is limited to maintaining instrument calibration and performing proper instrument maintenance.

#### 2.6 Decontamination of Materials and Equipment

Because geophysical surveying are not intrusive techniques, there is no need for decontamination between different transects or between different methods.

#### 2.7 Waste Management

No wastes were generated by the geophysical surveying techniques employed at the Site.

#### 2.8 Health and Safety

LEA field personnel conducted field activities in accordance with the LEA Site Health and Safety Plan that was prepared for all of the investigation activities included on the Site. In general, geophysical surveying was conducted in modified Level D personal protective equipment (PPE) consisting of safety glasses and surgical or nitrile gloves, and steel-toed shoes. Geophysical surveyors employed as subcontractors operated in accordance with their specific health and safety plans.



#### 3. RESULTS

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#### 3.1 Seismic Refraction Survey

A total of 7,190 foot seismic refraction line was profiled along the eastern edge of the airport runway on December 6 through 8, 1989. The location of the seismic profile is shown on Drawing TM8-1. Based on overlapping geophone spreads, data sets from multiple seismic profiles were analyzed and correlated. An analysis of the seismic refraction data, based on seismic velocity only, was performed to characterize the thickness of the unconsolidated materials. Topographic elevation data from survey data and airport drainage plans was used to provide surface elevation data along the seismic line (Weston Geophysical Corp., 1990).

The seismic velocity data was separated into three groups, based on the relative degree of induration, the degree of saturation, and the composition of the materials present. The relatively loose, unconsolidated, unsaturated surficial materials had seismic velocities of 1,200 to 1,600 feet per second. Seismic velocities in this range are consistent with a variety of unsaturated sediments. These unsaturated materials, interpreted to be stream terrace deposits, were between 10 to 4 feet thick: thickest in the southwestern portion of the runway, where the water table is deepest, and gradually thinning toward the northeast.

Beneath the unsaturated materials was a layer characterized by intermediate seismic velocities of 4,850 to 4,900 feet per second. Seismic velocities in this range would be characteristic of saturated or clay-rich materials. This zone was interpreted to be saturated stream terrace deposits and glaciolacustrine sediments. These materials were interpreted as continuing to bedrock.

Beneath the zone of intermediate seismic velocities was a zone with seismic velocities approximately between 12,500 to 13,200 feet per second. This zone was interpreted to be bedrock. Seismic velocities in this range are consistent with those for sound sandstone or shale. These materials were not found to be of a defined thickness, that is, there was no additional underlying rock layer noted within the depth range of the seismic energy wave.

The bedrock surface, as interpreted from the seismic refraction profile, is approximately 277 feet deep in the southwest end area of the runway. The bedrock surface rises to a depth of approximately 135 feet within the first 3,000 feet from the southwest end area of the runway. Over the course of the next 4,190 feet of the seismic profile, the bedrock surface rises to a depth of 81 feet below the ground surface. The bedrock surface interpreted from these data is consistent with bedrock elevation data interpolated from test boring and production well logs for the East Hartford area.



There was no indication of a weathered or highly fractured zone in the upper portion of the bedrock. In addition, because of the range of seismic velocities observed, it was not possible to determine whether a zone of glacial till or stratified drift was present beneath the glaciolacustrine sediments.

#### 3.2 Electromagnetic Terrain Conductivity Survey

EM surveys were conducted along eleven transects in the Airport/Klondike Area on December 4 through 7, 1989. During the survey, terrain conductivity measurements were recorded every 100 feet along the established survey lines. Also, measurements were continuously monitored so that conductivity anomalies could be identified. The location of the terrain conductivity surveys is shown on Drawing TM8-2.

The first terrain conductivity survey was conducted along the airport runway, along the same transect used for the seismic refraction survey. During the survey, a number of anomalies were recorded. With the exception of three, all of these anomalies were associated with subsurface conduits having surface expressions or being otherwise traceable. The three remaining anomalies were thought to be due to conduits, possibly drain pipes, which lacked surface expressions or could not otherwise be traced.

Two terrain conductivity survey lines were conducted in the North Klondike fill piles. Three conductivity anomalies were recorded from known sources, including two buried conduits and surficial steel drums. An additional oval-shaped anomaly, approximately 11 by 25 feet, was also noted to the west of the profile lines.

Two terrain conductivity surveys were performed in Fire Training Area "B" at the southern end of the airport. Several anomalies were reported from this area. One was reported to have been caused by a portion of steel drum partially buried in the soil. Three additional anomalies were reported to probably have been caused by a "tar-like substance" located on the surface.

One terrain conductivity survey was conducted west of the Virgin Product Storage Area (VPSA). Two anomalies were reported from this area. One anomaly was reported from west of Storage Area 2. The other was reported from near the southern end of the profile line, across from the McIlvane Property. No visible cause for these anomalies was reported.

Two terrain conductivity surveys were conducted near the northwest corner of the Klondike Area. The conductivity anomalies detected in this area were reported to probably have been caused by the pavement in the area, or a sewer line which crosses the area.

Two terrain conductivity surveys were performed in the Contractor Storage Area. South of Contractors Road, the terrain conductivity values were typical of background. North of Contractors Road, the conductivity values were considerably higher. These elevated measurements were considered possibly to have been caused by the presence of road salt from snow removal activities. The presence of salt could increase the conductivity of the soil moisture in this area.

One terrain conductivity survey was performed in the vicinity of the former Maintenance Building in the X-401 Area of the North Klondike Area. One anomaly, probably due to the building's septic system, was reported from this area.

In addition to the terrain conductivity profile lines, random surveys of various areas were conducted in the Klondike Area. An isolated conductivity anomaly was reported from east of the former X-412 Test Stand area. No possible cause of this anomaly was reported. Other scattered conductivity anomalies detected in the Klondike Area appear to have been associated with various underground piping or crushed steel drums, metals pans and other metal items associated with the fire training exercises conducted in Fire Training Area A.

#### 3.3 Ground Penetrating Radar Survey

#### 3.3.1 South Klondike Area

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A GPR survey was conducted in the South Klondike Area on May 24 through 26, 1993, to determine the geometry of the upper surface of the glaciolacustrine sediments, typically referred to as clay, in the area and to provide information regarding the presence of septic systems in the area of the Cryogenics Building. A total of nineteen transects were performed with survey stations established every twenty-five feet for horizontal and vertical control.

Based on a combination of ground truthing and the GPR results, the elevation of the upper surface of the glaciolacustrine sediments was established southward from the Cryogenics Building to the southern end of the Virgin Products Storage Area (VPSA). Based upon the interpreted GPR signal transmission times, the depth to the clay surface ranges from approximately 10 to 18 feet below grade. As illustrated on Drawing TM8-3, the general surface of the clay ranges from an elevation of approximately 35 feet above mean sea level (MSL) in the area of the Cryogenics Building, to approximately 28 feet MSL at the southern end of the VPSA. The clay surface generally slopes from east to west-southwest, with slight surface undulations in the area of monitoring well SK-MW-14I.



Based on the GPR profiles, septic systems were located near the Cryogenic Building in the South Klondike Area. The locations of these septic systems are shown on Drawing TM8-3.

#### 3.3.2 Former Army Barracks Septic Systems

A total of sixteen GPR transects were performed in the North Airport Area on August 6, 1996, to determine the presence and location of septic systems associated with the former Army Barracks. The location of the GPR transects is illustrated on Drawing TM8-4. In general, the location of the former septic system tanks and associated piping were located based on the interpretation of the GPR signals. In addition, "cell" structures, apparently related to the former septic systems were also located. Based upon an interpretation of the GPR signals, these cell structures appear to be composed of columns of undisturbed native materials separated by areas of homogenous fill material.

Possible former septic system tanks associated with the former 150-man and 100-man latrines, former supply and administration building, and former operations building, were located. Cell structures associated with the former septic systems of the 100-man and 150-man latrines, former supply and administration building, and the former leach fields associated with the 100-man and 160-man latrines were located. Various potential pipes were located throughout the area surveyed.

#### 3.3.3 Tie-Down Area

A GPR survey was conducted in the Tie-Down Area in conjunction with a magnetometry survey. A variety of targets, described as "a scattering of miscellaneous objects, some similar to pipes" were interpreted from the GPR survey results. At the location of the magnetic anomaly, discussed below, a "tank-like form" was interpreted, but the structure was reported to have a 4-tiered structure with radar reflectors at depths of approximately 5.5, 7.5, 9.5, and 11.5 feet below grade. The long axis of the reflecting structure was reported to be oriented east-west.

#### 3.3.4 Silver Lane Pickle Company

A total of three individual GRP surveys were conducted in the former Silver Lane pickle Company area. All of the surveys were performed to determine the presence of buried tanks in the area. At the southwestern corner of the area a prominent cylindrical object at a depth of 4 to 5 feet was detected and interpreted to be a large pipe. In the remaining two areas various objects were detected, but not reflections characteristic of a buried tank were interpreted from the results.

The results of magnetic surveying conducted in this area, discussed below, were generally consistent with these interpretations. However, the magnetic survey indicated the possible



presence of buried tank in the northeastern corner of the area. There was no indication of a buried tank in the GPR survey results.

#### 3.3.5 X-312/X-314 Test Stand Area

Approximately 900 lineal feet of GPR survey were conducted in the X-312/X-214 Test Stand Area. GPR signal penetration was reported at a few feet in the western portion of the transect to approximately 8 to 9 feet in the eastern portion. The difference in penetration was interpreted to be due to the presence of buried concrete rubble. A variety of buried radar reflectors were reported. These were interpreted to be due to possible large pipes or other buried debris. No reflections characteristic of buried tanks were noted.

#### 3.3.6 Former Explosives Storage Area

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A GPR survey consisting of approximately 300 lineal feet of transect was conducted in the former Explosives Storage Area. GPR signal penetration was reported to be approximately 13 feet. No GPR reflectors interpreted as consistent with buried tanks or pipes.

#### 3.3.7 Linde Gas/Chemical Storage Building

A GPR survey consisting of a total of 300 lineal feet of transect was conducted in the Linde Gas/Chemical Storage Building Area on September 6, 1996. GPR signal penetration was reported to be approximately 9 feet. The results of the GPR survey were not reported except for the area surrounding the magnetic anomaly. No recognizable structures were interpreted from the GPR results in the area of the magnetic anomaly.

#### 3.4 Magnetometry Survey

#### 3.4.1 Tie-Down Area

A total of 72 grid node locations on approximately 10 foot intervals were surveyed. The data indicated the presence of various magnetic anomalies consistent with the presence of scattered buried metallic objects and steel-bearing rubble. One magnetic anomaly was interpreted to be consistent with that caused by presence of a buried tank. A GPR survey in the Tie-Down Area indicated the presence of a buried tank-like structure. The reported tank-like structure, as discussed in Section 3.3.3 above, displayed a 4-tiered structure with GRP reflectors at depths of 5.5, 7.5, 9.5, and 11.5 feet below grade, oriented east-west. No final interpretation of the structure was reported.



#### 3.4.2 X-312/X-314 Test Stand Area

A total of 30 magnetic readings on an approximate 10-foot spacing were recorded from the X-312/X-314 Test Stand Area. The results were interpreted to indicate the presence of a "scattering of steel objects at the surface and buried." The report indicated that steel-bearing building rubble was visible on the ground surface in this area. There were no magnetic anomalies consistent with the presence of a buried tank noted in this area.

#### 3.4.3 Silver Lane Pickle Company

The three area previously discussed under GPR survey results were also surveyed magnetically. The magnetic surveying results indicated a magnetic anomaly in the area of the southwestern corner of the area, consistent with a large pipe at a depth of 4 to 5 feet, and the possible presence of a buried tank in the northeastern corner of the area. GPR survey data did not indicate the presence of a buried tank, however.

An additional magnetic survey was conducted along the soil piles located in this area. No significant magnetic anomalies were noted during this survey.

#### 3.4.4 Linde Gas/Chemical Storage Building

A total of 108 magnetic readings on an approximate 10-foot spacing were recorded from the Linde Gas/Chemical Storage Building area. The majority of the results were interpreted to indicate the presence of a scattering of buried debris, steel-bearing objects, or other structures, some of which were noted as visible on the surface. One anomaly, located near the former building footprint, was unexplained. A GPR survey in the area failed to detect any buried objects or other cause for the anomaly.



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Kick Geoexploration, 1996, Ground Penetrating Radar and Magnetic Survey, Rentschler Airport, Pratt & Whitney, East Hartford, Connecticut, prepared for Loureiro Engineering Associates. (Former Silver Lane Pickle Company)

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**DRAWINGS** 

Facility Name: <u>PRATT &amp;</u>	WHITNEY - MAIN STREET
Facility ID#: <u>CTD99067</u>	2081
Phase Classification: <u>R-5</u>	
Purpose of Target Sheet:	
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[ ] Page(s) Missing (Ple	ease Specify Below)
[ ] Privileged	[ ] Other (Provide Purpose Below)
	Material, if applicable:  SMIC REFRACTION SURVEY, T, LOCATION AND SECTION
[X] Map [] Photo	ograph [ ] Other (Specify Below)
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HITNEY - MAIN STREET
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Facility Name: PRATT & W Facility ID#: CTD99067209 Phase Classification: R-5 Purpose of Target Sheet:	
Phase Classification: R-5	81
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Description of Oversized Ma  DRAWING TM8-3: GROU  SOUTH KLONDIKE AREA	ND AND CLAY CONTOURS,
[X] Map [] Photogr	caph [ ] Other (Specify Below)

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Facility Name: <u>PRATT &amp; W</u>	VHITNEV - MAIN STREET	
	Facility Name: PRATT & WHITNEY - MAIN STREET	
Facility ID#: <u>CTD990672081</u> Phase Classification: <u>R-5</u>		
		Purpose of Target Sheet:
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Description of Oversized Ma  DRAWING TM8-4: GPR S  LOCATION MAP	aterial, if applicable: SURVEYS, NORTH AIRPORT,	
[X] Map [] Photogr	raph [ ] Other (Specify Below)	

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